EXHIBIT 56

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IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF NEW JERSEY

IN RE: JOHNSON & JOHNSON TALCUM POWDER PRODUCTS MARKETING, SALES PRACTICES, AND PRODUCTS LIABILITY LITIGATION

MDL No.

2738 (FLW)(LHG)

VIDEOTAPED DEPOSITION OF

REBECCA SMITH-BINDMAN, M.D.

San Francisco, California

Friday, February 8, 2019

Volume II

Reported by: MARY J. GOFF CSR No. 13427

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1		1	APPEARANCES (continued):
2		2	` ,
3		3	For Defendant Johnson & Johnson
4		4	Tucker Ellis LLP
5	Videotaped Deposition of REBECCA	5	BY: MICHAEL C. ZELLERS
6	SMITH-BINDMAN, M.D., Volume II, taken on behalf of	6	Attorney at Law
7	Johnson & Johnson, at Levin Simes Abrams LLP,	7	515 South Flower Street
8	1700 Montgomery Street, Suite 250, San Francisco,	8	42nd Floor
9	California 94111, beginning at 9:26 a.m. and ending	9	Los Angeles, California 90071
10	at 12:48 p.m., on February 8, 2019, before MARY J.	10	michael.zellers@tuckerellis.com
11	GOFF, California Certified Shorthand Reporter No.	11	213-430-3301
12	13427.	12	
13		13	
14		14	For Defendant Johnson & Johnson
15		15	Skadden, Arps, Slate, Meagher & Flom, LLP.
16		16	BY: BENJAMIN HALPERIN
17		17	Attorney at Law
18		18	4 Times Square
19		19	New York, New York 10036
20		20	benjamin.halperin@skadden.com
21		21	212-735-2453
22		22	
23		23	
24		24	
25		25	
1	Page 247 APPEARANCES:	1	Page 249
2	AFFEARANCES.		APPEARANCE (continued):
3	For Plaintiffs	2 3	For Defendant Imerys
4	Beasley Allen Law Firm	4	Dykema BY: JANE BOCKUS
5	BY: P. LEIGH O'DELL	5	
6	MARGARET M. THOMPSON, MD, JD, MPAff	6	Attorney at Law 112 E. Pecan Street
7	Attorney at Law	7	Suite 1800
8	218 Commerce Street	8	
9	Montgomery, Alabama 36103	9	San Antonio, Texas 78205 jbockus@dykema.com
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11	334-269-2343	11	210 ⁻ 33 1- 3317
12	For Plaintiffs	12	For Defendant Imerys
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13	Robinson Calcagnie, Inc.	13	Gordon & Rees LLP
13 14	Robinson Calcagnie, Inc. BY: CYNTHIA L. GARBER	13 14	Gordon & Rees LLP BY: JENNIFER A. FOSTER
	BY: CYNTHIA L. GARBER	14	BY: JENNIFER A. FOSTER
14	BY: CYNTHIA L. GARBER Attorney at Law	14 15	BY: JENNIFER A. FOSTER Attorney at Law
14 15 16	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive	14 15 16	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue
14 15	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660	14 15 16 17	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510
14 15 16 17	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com	14 15 16 17 18	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510 Austin, Texas 78701
14 15 16 17 18	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com For Plaintiffs	14 15 16 17 18 19	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510 Austin, Texas 78701 jfoster@gordonrees.com
14 15 16 17 18	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com For Plaintiffs Wilentz, Goldman & Spitzer P.A.	14 15 16 17 18 19 20	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510 Austin, Texas 78701
14 15 16 17 18 19	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com For Plaintiffs Wilentz, Goldman & Spitzer P.A. Daniel R. Lapinski	14 15 16 17 18 19 20 21	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510 Austin, Texas 78701 jfoster@gordonrees.com
14 15 16 17 18 19 20	BY: CYNTHIA L. GARBER Attorney at Law 19 Corporate Plaza Drive Newport Beach, California 92660 cgarber@robinsonfirm.com For Plaintiffs Wilentz, Goldman & Spitzer P.A. Daniel R. Lapinski Attorney at Law	14 15 16 17 18 19 20	BY: JENNIFER A. FOSTER Attorney at Law 816 Congress Avenue Suite 1510 Austin, Texas 78701 jfoster@gordonrees.com
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1	APPEARANCES (continued):	1	EXHIBITS CONTINUED: PAGE
2	For Defendant PCPC, Personal Care Products Council	2	Exhibit 34 Does Exposure to Asbestos Cause 324
3	Seyfarth Shaw, LLP		Ovarian Cancer article
4	BY: JAMES R. BILLINGS-KANG	3	
5	Attorney at Law	4	Exhibit 35 Occupational Exposure to Asbestos 327
6	975 F Street, NW	_	article
7	Washington, D.C. 20004	5	
8	jbillingskang@seyfarth.com	6	
9	202-828-5356	7 8	
10		9	
11		10	
12		11	
13		12	
14	For Defendants PTI Union, LLC and PTI Royston, LLC	13	
15	Tucker Ellis LLP	14	
16	BY: CAROLINE M. TINSLEY	15	
17	Attorney at Law	16	
18	100 South 4th Street`	17	
19	Suite 600	18	
20	St. Louis, Missouri, 63102	19	
21	caroline.tinsley@tuckerellis.com	20	
22	•	21 22	
23	Videographer:	23	
24	Andrew Graves	24	
25		25	
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1	INDEX	1	San Francisco, California
2	WITNESS EXAMINATION	2	February 8, 2019
3	REBECCA SMITH-BINDMAN, M.D.	3	9:26 a.m.
4	Volume II	4	
5		5	THE VIDEOGRAPHER: We are now on the
6	BY MR. ZELLERS 254, 372	6	record. My name is Andrew Graves. I'm a
7	BY MS. O'DELL 354	7	videographer for Golkow Litigation Services.
8	BY MR. BILLINGS-KANG 347	8	Today's date is February 8, 2019. The time is
9	BY MS. BOCKUS 331, 369	9	9:26 a.m.
10 11	NUMBER DESCRIPTION PAGE	10	This video deposition is being held at
12	Exhibit 28 6/1/17 Letter, Invoice 259	11	1700 Montgomery Street, Suite 250, San Francisco,
13	Zimon 20 of 1/1/ Detter, filt offer	12	California, In the Matter of In Re: Johnson &
14	Exhibit 29 Bill, Invoice 147 261	13	Johnson Talcum Powder Products Marketing, Sales
15		14	Practices, and Products Liability Litigation, for
16		15	the United States District Court, District of
17	Exhibit 30 Perineal Use of Talc and Risk 276	16	New Jersey.
	of Ovarian Cancer article	17	The deponent is Rebecca Smith-Bindman,
18		18	Ph.D., Volume II.
19	E 1910 A 7 G	19	Would counsel please identify yourselves.
20	Exhibit 31 Influence of Aspirin and nonaspirin 297	20	MR. ZELLERS: Can we waive that since we
0.1	NSAID Use article	21	were all here yesterday?
21	Eyhibit 22 Artiala Tala 217	22	THE VIDEOGRAPHER: Okay. The court
22 23	Exhibit 32 Article, Talc 317	23	reporter is Mary Goff, and she will now swear in the
24	Exhibit 33 Invoice, Tachibana, UCSF, 10/18 319	24	witness.
25	Emilion 33 invoice, Facilibana, OCSF, 10/10 317	25	
1			

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1	REBECCA SMITH-BINDMAN, M.D., VOLUME II,	1	manuscript.
2	being first duly sworn or affirmed to testify to the	2	I was quite surprised that they weren't
3	truth, the whole truth, and nothing but the truth,	3	exactly the same. They were not meaningfully
4	was examined and testified as follows:	4	different, but there was a very slight shift in
5	EXAMINATION BY COUNSEL FOR THE DEFENDANTS	5	the ones that are in my report.
6	BY MR. ZELLERS:	6	I mean, I asked Dr. Jane why that was the
7	Q Good morning.	7	case. And in fact, the numbers are calculated using
8	A Good morning.	8	the standard errors in the confidence intervals and
9	Q Dr. Smith-Bindman, did you do anything to	9	the sample size which very slightly shifts it from
10	prepare or further prepare for your deposition	10	the reported numbers.
11	since the time we concluded yesterday and this	11	So you were correct when you said the
12	morning?	12	numbers are not exactly the same, and she explained
13	A I did two things. I reviewed my report	13	that that's why that's the case.
14	again, and I called the biostatistician who worked	14	Q Are the numbers that were contained in
15	on my meta-analysis to review a few of the details.	15	Figure Figures 2 and 3 in your report, estimates?
16	Q You called Dr. Hall?	16	MS. O'DELL: Object to the form.
17	A I did.	17	A The numbers are calculated. So I I
18	Q When was the last time that you had talked	18	think by that, you mean estimates.
19	with Dr. Hall before yesterday?	19	Q (BY MR. ZELLERS) Did you do the
20	A Speaking to her at the time of that she	20	calculations?
21	did the analysis. And I I think there was an	21	A No. She she did them.
22	e-mail or two over the last several weeks asking for	22	Q Do we
23	her CV or something like that, but not any	23	THE COURT REPORTER: Can you raise your
24	meaningful conversation.	24	voice for me, please?
25	Q Have you produced the e-mails the	25	A Yes, I can. I apologize.
	Page 255		Page 257
1	Page 255 recent e-mails with Dr. Hall?	1	Page 257 Q (BY MR. ZELLERS) Do we have her work
1 2		1 2	
	recent e-mails with Dr. Hall?		Q (BY MR. ZELLERS) Do we have her work
2	recent e-mails with Dr. Hall? A I I'm not sure if I produced the one	2	Q (BY MR. ZELLERS) Do we have her work product as to the calculations that were made?
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	Page 258		Page 260
1	Q It looks like you made those notes in an	1	Q What do you well, I will take that as a
2	aqua pen is is that right, or	2	yes, that at least through November 13, 2018, that
3	A Yes.	3	Deposition Exhibit 28 are all of your invoices
4	Q I	4	A Yeah.
5	A Yes.	5	Q is that right?
6	Q Okay.	6	A Yes.
7	A Yes, absolutely.	7	Q Those invoices total approximately
8	Q Any	8	160 hours. Does that sound right?
9	A I would say teal, but	9	A 160?
10	Q Well, I think you're probably more correct	10	Q 160.
11	than I am.	11	A I'm I'm going to believe you.
12	Any other notes that you had from your	12	Q Well, and anyone can go and check my math.
13	discussion with Dr. Hall?	13	How many hours do you estimate that you
14	A No.	14	have spent up until today on this matter both doing
15	Q Any other communications that you had with	15	additional work, reviewing those additional studies
16	Dr. Hall, other than your 10- or 15-minute phone	16	and materials we talked about yesterday, preparing
17	conversation yesterday afternoon or evening?	17	for the deposition, meeting with counsel for
18	A No.	18	Plaintiffs?
19	Q Did you communicate with Dr. Hall via	19	MS. O'DELL: Since the last invoice?
20	e-mail or any way other than just the phone call?	20	MR. ZELLERS: Since the last invoice is
21	A No.	21	what I had intended to ask.
22	Q Did you communicate with anyone else	22	MS. O'DELL: Yeah. Thank you.
23	between the time we finished yesterday and this	23	A I I think approximately 25 hours.
24	morning about the subject matter that we're here to	24	Q (BY MR. ZELLERS) In addition, we were
25	talk about?	25	provided with a two-page exhibit which are two
23		45	provided with a two-page exhibit which are two
	Page 259	25	Page 261
1		1	
	Page 259		Page 261
1	Page 259 A No.	1	Page 261 invoices from Jane Hall, which total around \$3,000.
1 2	Page 259 A No. Q At the start of the session today, counsel	1 2	Page 261 invoices from Jane Hall, which total around \$3,000. (Exhibit 29 was marked for identification
1 2 3	Page 259 A No. Q At the start of the session today, counsel for Plaintiffs, Ms. O'Dell, provided me with copies	1 2 3	Page 261 invoices from Jane Hall, which total around \$3,000. (Exhibit 29 was marked for identification and is attached to the transcript.)
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1 2 3 4 5	Page 259 A No. Q At the start of the session today, counsel for Plaintiffs, Ms. O'Dell, provided me with copies of your invoices. I'm going to hand you what we have marked as Exhibit 28. It is a five-page exhibit.	1 2 3 4 5 6	Page 261 invoices from Jane Hall, which total around \$3,000. (Exhibit 29 was marked for identification and is attached to the transcript.) Q (BY MR. ZELLERS) Can you look at Exhibit 29 and verify for us that those are the e-mails strike that that those are the
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A No. Q At the start of the session today, counsel for Plaintiffs, Ms. O'Dell, provided me with copies of your invoices. I'm going to hand you what we have marked as Exhibit 28. It is a five-page exhibit. The first page is a cover letter. It looks like an engagement or general engagement letter from you to you say Mr. Carmen Scott. Is it a Ms. Carmen Scott? (Exhibit 28 was marked for identification and is attached to the transcript.) A It is. Q All right. That was on June 1 of 2017. The last invoice is November 13 of 2018; is that right? A I'm sorry. What was the question? Is this Q The question is: Are those all of our invoices that you have generated thus far in the talcum powder MDL litigation? A I I think I mentioned that there are	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	invoices from Jane Hall, which total around \$3,000. (Exhibit 29 was marked for identification and is attached to the transcript.) Q (BY MR. ZELLERS) Can you look at Exhibit 29 and verify for us that those are the e-mails strike that that those are the invoices for the work that was done by Dr. Hall? A I I I believe so. Q Are you aware of any additional invoices beyond that? A I'm not. Q Do you have any invoices from your copy editor, Ms. Tachibana? A She sent me an invoice, which I forwarded to counsel. Q All right. How much was that invoice for? A I think it was about \$1,500. Q How much an hour does Ms. Tachibana charge? A I think it's about a hundred dollars an hour. Q Was that for all of the work that she did

	Page 262		Page 264
1	MS. O'DELL: Excuse me. I'm sorry, Mike.	1	paragraph, Mike? I have lost track.
2	I apologize for not copying that. We're going to	2	MR. ZELLERS: I was asking about the
3	make a copy, and I will provide it to your	3	specific statement in the middle paragraph of
4	momentarily at	4	page 17 relating to cohort studies and the
5	MR. ZELLERS: Very good. We'll mark it	5	limitation that they rarely focus on a single
6	before the conclusion of the deposition. Thank you.	6	narrowly defined question.
7	Q (BY MR. ZELLERS) Do you have your report	7	MS. O'DELL: Yes. Thank you.
8	in front of you? You can use your annotated	8	Q (BY MR. ZELLERS) But my question now is
9	version, No Exhibit 17. We also marked your	9	A Yes.
10	report as Exhibit 2.	10	Q whether or not Dr. Smith-Bindman, as
11	A Yes.	11	you sit here, can cite any published literature that
12	Q Do you have that in front of you?	12	states the cohort studies are unlikely to detect a
13	A I do.	13	real association or unlikely to detect real
14	Q Go to page 17, if you will, please.	14	associations for this reason.
15	MR. LAPINSKI: Counsel, you said page 17?	15	A I
16	MR. ZELLERS: Yes, page 17.	16	MS. O'DELL: Excuse me. Are you
17	A Yes.	17	quoting when you say "unlikely to detect real
18	Q (BY MR. ZELLERS) On page 17, you make a	18	associations for this reason," is that reading
19	number of general statements about the advantages	19	are you reading from her report or is that just
20	and disadvantages of case control and cohort	20	MR. ZELLERS: No. That's my question.
21	studies; is that right?	21	MS. O'DELL: okay. Sorry.
22	A Yes.	22	MR. ZELLERS: And if it's not very
23	Q There are no citations there. Is this	23	articulate
24	based and those statements based on your general	24	A I I think cohort cohort studies are
25	knowledge?	25	able to detect real associations, if they ask about
	Page 263		Page 265
1		1	Page 265 those associations.
1 2		1 2	
	A Yes. This is based on Epi 101, sort of		those associations.
2	A Yes. This is based on Epi 101, sort ofQ You make a statement in the middle	2	those associations. If they don't ask about it, then it
2	A Yes. This is based on Epi 101, sort of Q You make a statement in the middle paragraph on page 17 where you talk about "cohort studies." And you state that they rarely focus on a	2	those associations. If they don't ask about it, then it can't then then it doesn't have an ability to measure it. So what I am saying here is that cohort
2 3 4	A Yes. This is based on Epi 101, sort of Q You make a statement in the middle paragraph on page 17 where you talk about "cohort studies." And you state that they rarely focus on a single narrowly defined question and that that's an	2 3 4	those associations. If they don't ask about it, then it can't then then it doesn't have an ability to measure it.
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2 3 4 5 6 7 8	A Yes. This is based on Epi 101, sort of Q You make a statement in the middle paragraph on page 17 where you talk about "cohort studies." And you state that they rarely focus on a single narrowly defined question and that that's an important limitation of cohort studies. Do you see that? A I do.	2 3 4 5 6 7 8	those associations. If they don't ask about it, then it can't then then it doesn't have an ability to measure it. So what I am saying here is that cohort studies don't have the capacity to go in depth and ask. I think all of the cohort studies that I reviewed for for this review discuss the lack of
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2 3 4 5 6 7 8 9 10	A Yes. This is based on Epi 101, sort of Q You make a statement in the middle paragraph on page 17 where you talk about "cohort studies." And you state that they rarely focus on a single narrowly defined question and that that's an important limitation of cohort studies. Do you see that? A I do. Q Can you cite to any other epidemiologists who agree with you on that point?	2 3 4 5 6 7 8 9 10	those associations. If they don't ask about it, then it can't then then it doesn't have an ability to measure it. So what I am saying here is that cohort studies don't have the capacity to go in depth and ask. I think all of the cohort studies that I reviewed for for this review discuss the lack of detail in the cohort question, meaning that it's not that the study design was the problem. It was that
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	Page 266		Page 268
1		1	
1 2	questions easily.	1 2	yet they didn't report it that way.
3	So I think in general I like cohort designs very much, and I think it's a very powerful	3	They only reported on any exposure to talc powder products. And that is a very vague
4	study design. But if you haven't asked the right	4	definition as opposed to the frequency of use.
5	questions, it's hard to the expand it.	5	And for that reason, I couldn't tell in
6	So I did I read all of the cohorts on	6	in nearly the same detail as I could for the earlier
7	this topic.	7	study, the the exposure. They just chose not to
8	Q And you concluded that the Gertig cohort	8	present it that way.
9	study, you know, asked the right information or had	9	Q The Gates 2010 cohort study did include
10	sufficient information for you to include it both in	10	over a hundred thousand women; is that right?
11	your general systematic review and in your more	11	A The Gates?
12	focused systematic review which you set forth as	12	Q Yes.
13	Figures 2 and 3 in your report, correct?	13	A It was large, but I need to check the
14	A That's correct. That those those	14	actual numbers.
15	were looking at regular use, and I thought the	15	Q Here. Let me hand it to
16	Gertig was the cohort that allowed me to understand	16	A I have it. I have it.
17	regular use of perineal talc.	17	Q Do you have it?
18	Q Gertig was based on the Nurses' Health	18	A Yeah.
19	Study; is that right?	19	Q Okay. And I am looking at page 47. And
20	A Yes.	20	it's quoting the Nurses' Health Study as involving
21	Q Gertig and the authors do recognize that	21	close to 109,000
22	the biologic evidence for the association of talc	22	A I'm not sure.
23	and ovarian cancer is incomplete, correct?	23	Q women?
24	MS. O'DELL: Object to the form.	24	A I'm not sure. I'm looking at the the
25	A I I don't have it in front of me, but	25	Gates are you asking about Gates or Gertig?
	Page 267		Page 269
1	it may be that they reported as of 2000, they didn't	1	Q I'm asking about Gates 2010.
2	have evidence of the biologic mechanism. I	2	A In mine it says \$221,000 woman with 924
3	Q And I will ask you about biologic	3	epithelial ovarian cancer.
4	mechanism before we conclude here today.	4	Am I looking in the wrong place?
5	You did not, though well, let me	5	Q No. I and then if you look further, it
6	withdraw that.	6	talks about at least in the Nurses' Health Study,
7	There was a follow-up cohort study to	7	there being 108,870 women; is that right?
8	Gertig 2000, and that was the Gates 2010 cohort	8	A Yes.
9	study; is that right?	9	Q The women in the national health study,
10	A Yes.	10	which was the basis for both the Gertig 2000 cohort
11	Q That had a longer follow-up than Gertig;	11	study and Gates 2010 cohort study, those women were
12	is that right?	12	followed from 1976 to 2006, so for 30 years
13	A Yes.	13	A Yes.
14	Q It was an analysis of the data collected	14	Q is that right?
15	in the Nurses' Health Study; is that right?	15	A Yes.
16	MS. O'DELL: Object to the form.	16	Q And and after following these hundred
17	A It was analysis of some of the data	17	thousand women or over hundred thousand women for
18	collected in the in the Nurses' Health Study, but	18	three decades, the authors in Gates 2010 concluded
19	they did not report the variable in such a way that	19	that the data did not show a statistically
20	would allow you to understand or to quantify the	20	significant relationship between talcum powder use
21	exposure as opposed to the first cohort study which	21	and any type of epithelial ovarian cancer; is is
22	did.	22	that right?
23	So the latter study, they they had the	23	A The Gates authors concluded that there was
24	data which is why I'm answering it this way. There	1 74	
24 25	data, which is why I'm answering it this way. They clearly had it, because the data hadn't change, and	24 25	no association between any talcum powder product use, and it was not significant in ovarian cancer,

	Page 270		Page 272
1	yes.	1	using it on a on a frequent basis, so I think the
2	Q Another short study that you did not	2	duration is very different measure.
3	include in your systematic review was the Houghton	3	Q We talked yesterday about your definition
4	study; is that right?	4	of "regular use," and you pointed me to your report
5	MS. O'DELL: Object to form.	5	where you give an extensive discussion of that.
6	A Yes, that is true.	6	Do you remember?
7	Q (BY MR. ZELLERS) The Houghton study was	7	A I do.
8	based on or is also called the Women's Health	8	Q Did your definition of "regular use,"
9	Initiative Study; is that right?	9	was that every psychometrically tested to
10	A Yes, it is.	10	demonstrate any validity or reliability?
11	Q That involved 61,000 women; is that right?	11	MS. O'DELL: Object to the form.
12	A That is correct.	12	A Of are you asking about the reliability
13	Q Houghton 2014 did not find a statistically	13	of the way we defined it
14	significant relationship between perineal talc use	14	Q (BY MR. ZELLERS) Yes.
15	and ovarian cancer among women who had ever used	15	A or about the concept?
16	tale; is that right?	16	Q No. About the way you defined it.
17	A That is what they concluded.	17	A I believe we explained in the report that
18	Q Or among women who had fewer than nine	18	we tried to approximate regular use, frequency use
19	years of perineal talc use, correct?	19	by being at least three times a week and as close to
20	A Correct.	20	daily as possible.
21	Q Or among women who had more than 10 years	21 22	But in terms of if that is I I'm
22	of perineal talc use, correct?	23	not we have not validated that in different studies or
23	A Can you say that last part?	24	Q That's something that you came up with; is
24	Q Sure.	25	that right?
25	A Sorry.	23	that fight?
	Page 271		Page 273
1	Q Houghton 2014, that cohort study	1	A Yeah.
2			
_	A Okay. No. I yes, that is correct.	2	MS. O'DELL: Object to the form.
3	A Okay. No. 1 yes, that is correct. Q And also, they did not find a	2 3	MS. O'DELL: Object to the form. A Yes, it is.
3	Q And also, they did not find a	3	A Yes, it is.
3 4	Q And also, they did not find a statistically significant relationship between	3 4	A Yes, it is. Q (BY MR. ZELLERS) Gonzalez. You criticize
3 4 5	Q And also, they did not find a statistically significant relationship between perineal talc use strike that.	3 4 5	A Yes, it is. Q (BY MR. ZELLERS) Gonzalez. You criticize Gonzalez in your report for combining various types
3 4 5 6	Q And also, they did not find a statistically significant relationship between perineal talc use strike that. They also did not find a statistically	3 4 5 6	A Yes, it is. Q (BY MR. ZELLERS) Gonzalez. You criticize Gonzalez in your report for combining various types of use. Do you recall that generally? So that's
3 4 5 6 7 8 9	Q And also, they did not find a statistically significant relationship between perineal talc use strike that. They also did not find a statistically significant relationship between the use of talcum	3 4 5 6 7 8	A Yes, it is. Q (BY MR. ZELLERS) Gonzalez. You criticize Gonzalez in your report for combining various types of use. Do you recall that generally? So that's page 21 where A No. I'm I'm on my report. My my hesitation is it's not so much that I'm criticizing
3 4 5 6 7 8	Q And also, they did not find a statistically significant relationship between perineal talc use strike that. They also did not find a statistically significant relationship between the use of talcum powder on sanitary napkins or diaphragms on and ovarian cancer; is that right? A That's correct.	3 4 5 6 7 8	A Yes, it is. Q (BY MR. ZELLERS) Gonzalez. You criticize Gonzalez in your report for combining various types of use. Do you recall that generally? So that's page 21 where A No. I'm I'm on my report. My my hesitation is it's not so much that I'm criticizing the study. It's rather it doesn't contribute to
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Page 274 Page 276 1 Q -- you were looking at? 1 absolutely that's a possibility. 2 A -- I believe that you want to have as 2 Q You also looked at both the hospital-based 3 3 narrow a definition, in my belief, of meta-analysis and the population-based case-control studies; is 4 as possible to understand when you're pooling 4 that right? 5 results, make sure -- something you said -- you're 5 A I did. 6 combining apples to apples. 6 Q None of the hospital-based case-control 7 And I think one would expect that any 7 studies show a statistically significant association 8 potential -- potential exposure to talcum powder 8 between talc use and ovarian cancer, correct? 9 would matter what skin or surface or cell line or 9 A I -- I'm not sure --10 tissue you're putting against, and you wouldn't 10 O Take a look at --11 necessarily expect the same result in a cervical 11 A -- where you're getting that from. 12 exposure or a diaphragm exposure or a vaginal 12 Q I will show you the Langseth paper from 13 exposure. 13 2008, which you cite and we talked about yesterday. 14 You -- you might have an association of 14 Let's mark this as Exhibit 30. 15 those places. You might not. I just think it's a 15 (Exhibit 30 was marked for identification 16 different question. 16 and is attached to the transcript.) 17 Q All of the cohort studies were prospective 17 A I have it. I have it. 18 as opposed to retrospective; is that right? 18 Q (BY MR. ZELLERS) All right. Now -- and 19 19 let me just -- I'll put it in the record there. 20 Q Prospective studies are not subject to 20 MS. O'DELL: Thank you. 21 recall bias like retrospective studies, correct? 21 Q (BY MR. ZELLERS) If you look at the 2.2 A Yes, that's true. 22 Langseth paper, on the second page, Figure 1, they Q They're also not subject to the same 23 23 list out all of the population -- or at least a 24 selection bias as retrospective studies, correct? 24 great number of the population-based and 25 MS. O'DELL: Object to the form. 25 case-control studies and the hospital-based Page 275 Page 277 1 A In general, case-control studies are often 1 case-control studies; is that right? 2 plagued with selection bias, but they don't have to 2 A Yes, they do. 3 3 Q (BY MR. ZELLERS) At least among the be. 4 Q (BY MR. ZELLERS) Well, recall bias can 4 hospital-based case-control studies that are 5 5 identified by Langseth in Figure 1, it appears that distort a scientific evaluation of whether an 6 exposure is actually related to a disease, correct? 6 there's six hospital-based case-control studies. 7 7 None of those hospital-based case-control A Yes. 8 8 Q So for example, recall bias could distort studies show a statistically significant 9 9 results if women with ovarian cancer were more association, correct? 10 likely to remember their exposure to talc than women 10 MS. O'DELL: Object to the form. A We discussed this yesterday. But if 11 without ovarian cancer; is that right? 11 12 12 you're asking if the individual hospital-based A That is a theoretical risk. 13 13 studies overlap one, then they overlap one. Q In fact, in your report on page 17, you 14 acknowledge that the risk of bias is greater for 14 Q (BY MR. ZELLERS) They do not overlap one? 15 15 case-control studies as opposed to cohort studies; A The -- the hospital-based studies do 16 is that right? 16 overlap one. 17 A Yes. 17 Q Okay. The population-based case-control 18 Q Recall bias could explain the fact that 18 studies, which are up above in our 19 19 Langseth Figure 1, some of those -- if we look at some retrospective case-control studies have found a 20 statistically significant relationship between 20 the individual studies -- show statistical 21 talcum powder and ovarian cancer, but the cohort 21 significance, and some of those do not; is that 22 studies have not, correct? 22 23 23 A That is a theoretical risk. To do that A I'm -- I'm hesitant to be as definitive 24 24 you would need to have some knowledge in the about using the confidence interval that are 25 25 presented here as being a reflection of statistical population that influenced that recall bias, but

Page 278 Page 280 1 significance. 1 tell if things are different or the -- or 2 2 indistinguishable, the confidence interval for the All of them are shifted to the right. All 3 3 pooled odds ratio for the population-based studies of them have a positive association. And the 4 confidence interval for some of them overlap one. 4 goes from 1.29 to 1.52, so the truth is likely in 5 But taken as a group, there's statistical 5 that range, where the truth for the hospital-based 6 6 significance for the entirety of the population -studies is 0.92 to 1.63. They overlap. 7 of the population of studies that he looked at. 7 And so I would interpret that using this 8 Q As we did discuss yesterday, if you look 8 sort of quick approach is that there's not a 9 9 at the population-based studies individually, at statistical difference between the summary of the 10 least based upon what's reported by Langseth in his 10 pooled odd ratio based on the type of populations 11 Figure 1, some demonstrate statistical significance 11 that were recruited. 12 12 and some do not; is that right? Again, the point estimates are a little 13 A I -- again, it's -- they're slightly --13 bit different for sure, 1.4 versus 1.12. But the 14 it's -- it's not the only -- the confidence interval 14 confidence intervals overlap, suggesting that overlapping one is sort of what I consider a 15 they're not -- they're not different. 15 16 quick-and-dirty way to answer statistical 16 Q You are familiar with selection bias; is 17 17 significance. that right? 18 A I am. It's not exactly that way. But some of 18 19 them clearly suggest statistical significance. I 19 Q Would you agree that the hospital-based think ten of them. And four of them suggest not 20 20 case-control studies may be less susceptible to statistical significance. So the individual 21 21 selection bias than population-based case-control 22 studies. But it's a little more complicated than 22 studies? 23 that. 23 MS. O'DELL: Object to the form. 24 Q Would you agree that if a study does not 24 A I -- I would not agree with that. In 25 show statistical significance, that it could mean 25 general, you think about hospital-based studies as Page 279 Page 281 1 that no risk exists? 1 being potentially a great deal more bias. 2 A If --2 Now, that -- with that caveat, it depends 3 MS. O'DELL: Object to the form. 3 on how you found your cases and your controls. 4 4 A -- an individual study shows no But in general, you want to find 5 5 statistical significance, it means -- with all population-based cases and controls, I believe, rather than hospital-based. But it matters how they 6 research -- that the most likely truth is the point 6 7 7 estimate, which is whatever that point estimate is, are recruited. 8 but that you could not exclude chance as one of the 8 Q Hospital-based control studies are 9 9 possible causes for the results. comparing hospitalized patients to hospitalized 10 10 Q (BY MR. ZELLERS) If we looked just at the patients; is that right? 11 population-based case-control studies and the 11 A I -- I -- in this case, yes, I think 12 12 hospital-based case-control studies that are shown that's --13 by Langseth in Figure 1, there is an inconsistency 13 Q And --14 between the two in that each of the individual 14 A -- how they define it. 15 hospital-based case-control studies have confidence 15 Q -- in population based studies, you're 16 intervals which overlap one, and many of the 16 more likely to be comparing ill people to healthy 17 population-based or at least some of the 17 people; is that right? 18 population-based studies do not, correct? 18 A Again, it -- it depends on how you're 19 19 selecting. If you're selecting patients who are A I -- I do not believe there is 20 inconsistency between the pooled odds ratio for 20 sick in the hospital and comparing that to healthy 21 population-based studies, which has a confidence 21 patients who are outpatient population based, that would be the kind of bias that you are describing. 22 interval that overlaps the confidence intervals for 22 23 the pooled odd ratio for the hospital-based studies. 23 That would be the worst. 24 So using the approach that you are 24 But if you're, in fact, comparing 25 25 suggesting of using confidence intervals, the way to relatively comparable population-based cases and

	Page 282		Page 284
1	controls, then I don't agree that hospital-based	1	been established; is that right?
2	controls are are better.	2	A That is what they say.
3	Q Penninkilampi. One of the studies that	3	Q Meta-analyses or systematic analyses, that
4	you talked to us about yesterday was Penninkilampi	4	can combine the work of other published studies into
5	2018; is that right?	5	one study; is that right?
6	A Yes.	6	A Yes.
7	Q Penninkilampi 2018 did not include the	7	Q If there are biases and confounding in the
8	Gates 2010 cohort study; is that right?	8	underlying studies, the meta-analysis or the
9	A That's correct.	9	systematic review or analysis will reflect the
10	Q Did you verify that the data that	10	biases and confounding; is that right?
11	Penninkilampi reports is accurate?	11	MS. O'DELL: Object to the form.
12	A I did not. Did I go back and validate	12	A Any biases in the papers will not go away
13	their individual abstracted data?	13	by combining them. I'm not sure what you mean by
14	Q Yeah.	14	"the confounding." If if a paper has an
15	A I did not.	15	accounting for confounding?
16	Q In determining that a study is of high	16	Q (BY MR. ZELLERS) Let me ask you another
17	quality, would it be important to you that the	17	question. A proper meta-analysis or systematic
18	authors are accurately reporting the odds ratios and	18	review must analyze the sources of heterogeneity
19	confidence intervals?	19	across the studies; is that right?
20	A Data accuracy is important to me. And	20	A Yes.
21	and I would look towards the journal peer review	21	Q And a proper meta-analysis or systematic
22	process to have done that, yes.	22	review must examine the methodology of each of the
23	Q If if there were errors in reporting of	23	underlying studies, correct?
24	the odds ratios or the confidence intervals, that	24	A Yes.
25	could call into question the reliability of the	25	Q You have given some opinions or at
	Page 283		Page 285
1	study; is that right?	1	least you state some opinions relating to the
2	MS. O'DELL: Object to the form.	2	biological mechanisms of cancer; is that right?
3	A Yes, that's definitely possible.	3	A Yes.
)	11 103.
4	Q (BY MR. ZELLERS) Penninkilampi 2018, that	4	Q The biological mechanisms of cancer are
4 5	Q (BY MR. ZELLERS) Penninkilampi 2018, that study specifically states that a certain causal link		
		4	Q The biological mechanisms of cancer are
5	study specifically states that a certain causal link	4 5	Q The biological mechanisms of cancer are not your area of expertise; is that correct?
5 6	study specifically states that a certain causal link between talc use and ovarian cancer has not been	4 5 6	Q The biological mechanisms of cancer are not your area of expertise; is that correct? MS. O'DELL: Object to the form.
5 6 7	study specifically states that a certain causal link between talc use and ovarian cancer has not been established, correct?	4 5 6 7	Q The biological mechanisms of cancer are not your area of expertise; is that correct? MS. O'DELL: Object to the form. A I'm knowledgeable about the biological
5 6 7 8	study specifically states that a certain causal link between talc use and ovarian cancer has not been established, correct? MS. O'DELL: Object to the form.	4 5 6 7 8	Q The biological mechanisms of cancer are not your area of expertise; is that correct? MS. O'DELL: Object to the form. A I'm knowledgeable about the biological mechanism of cancer as a scientist, as a physician,
5 6 7 8 9	study specifically states that a certain causal link between talc use and ovarian cancer has not been established, correct? MS. O'DELL: Object to the form. A I don't remember them concluding that.	4 5 6 7 8 9	Q The biological mechanisms of cancer are not your area of expertise; is that correct? MS. O'DELL: Object to the form. A I'm knowledgeable about the biological mechanism of cancer as a scientist, as a physician, as a cancer epidemiologist.
5 6 7 8 9	study specifically states that a certain causal link between talc use and ovarian cancer has not been established, correct? MS. O'DELL: Object to the form. A I don't remember them concluding that. But if you tell me where	4 5 6 7 8 9	Q The biological mechanisms of cancer are not your area of expertise; is that correct? MS. O'DELL: Object to the form. A I'm knowledgeable about the biological mechanism of cancer as a scientist, as a physician, as a cancer epidemiologist. Q (BY MR. ZELLERS) Would you agree that
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	Page 286		Page 288
1	Q Sand from the beach?	1	are a lot of other factors such as sphincters or the
2	A I don't know if there's evidence of sand	2	type of mucosa that it is or mucous barriers that
3	from the beach.	3	might have a very strong relationship to the
4	Q Toilet paper particles?	4	concentration of talc.
5	A I I I do not know if there's	5	So the rectum and the bladder have
6	evidence of that.	6	sphincters, and the mucosa and the vagina and the
7	Q There are no human studies that	7	bladder and rectum are very different than the
8	demonstrate the migration of any particulate matter	8	mucosa of the ovary. The endometrium has different
9	from outside the peri peritoneum to the ovaries,	9	tissue.
10	correct?	10	So I agree with you that you would expert
11	MS. O'DELL: Object to the form.	11	proximity would be one factor that might affect
12	A When you say "demonstrate," do you mean	12	concentration. But the characteristics of the
13	active demonstration or a suggestion that it has	13	tissue, the barriers, the physical or mucosal could
14	gone that route?	14	be expected to have a much bigger impact.
15	Q (BY MR. ZELLERS) Active active	15	Q No studies that you're aware of show
16	demonstration.	16	inflammation as a result of genital talc use in the
17	A So there are no studies that I know of	17	rectal, vulvar, vaginal, cervical, and uterine
18	that have taken talcum powder and then documented	18	tissues; is that right?
19	its movement through to the ovaries.	19	A I do not know of those studies.
20	Q Or any particulate from outside the	20	Q And no studies show a link between
21	perineum to the ovaries, correct?	21	external genital talc use and rectal, vulvar,
22	MS. O'DELL: Object to the form.	22	vaginal, cervical, or uterine cancer; is that right?
23	A I I don't know of any sort of active	23	MS. O'DELL: Object to the form.
24	studies that have watched it moved. It's rather the	24	A That is correct.
25	studies have found the particulate matter at its	25	Q (BY MR. ZELLERS) You have not done an
	Page 287		Page 289
1	destination and then have supposed it had to travel		
		1	expert review of the inflammation evidence yourself;
2		2	expert review of the inflammation evidence yourself; is that fair?
2	there in some way. Q (BY MR. ZELLERS) None of the studies that		
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	there in some way. Q (BY MR. ZELLERS) None of the studies that you cite in your report actually looked at whether talcum powder can migrate from perineal application through the fallopian tubes to the ovaries, correct? A Correct. MS. O'DELL: Object to the form. Q (BY MR. ZELLERS) You also cannot cite any article that shows granulomas, fibrosis, or adhesions anywhere up the reproductive tract of a women as result of her external genital talc application; is is that right? A Yes. Q If talcum powder migrates from the perineal region to the ovaries, shouldn't exposure to talc be far greater in concentration in the rectal, vulvar, vaginal, cervical, and uterine tissues which are closer to the area of initial exposure? MS. O'DELL: Object to the form. A I think that assumes that proximity and concentration, which you would expect which would	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	is that fair? MS. O'DELL: Object to the form. A I I have done a lot of reading of the inflammation literature. I'm not sure how I would define it as an expert or not an expert expert review. Q (BY MR. ZELLERS) You do know that not all inflammatory conditions lead to cancer, correct? A There's a lot of literature about certain inflammation that causes chronic in particular a lot of different kind of cancers, more publications about acute inflammation that does not lead to cancer. But yes, there are both cancers that are very susceptible to inflammation or caused by it and some that are not. Q Chronic inflammation. There are many chronic inflammatory conditions that do not lead to cancer; is that right? A Yes. Q Do you agree that an agent can be a carcinogenic for one type of cancer, but not for
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	there in some way. Q (BY MR. ZELLERS) None of the studies that you cite in your report actually looked at whether talcum powder can migrate from perineal application through the fallopian tubes to the ovaries, correct? A Correct. MS. O'DELL: Object to the form. Q (BY MR. ZELLERS) You also cannot cite any article that shows granulomas, fibrosis, or adhesions anywhere up the reproductive tract of a women as result of her external genital talc application; is is that right? A Yes. Q If talcum powder migrates from the perineal region to the ovaries, shouldn't exposure to talc be far greater in concentration in the rectal, vulvar, vaginal, cervical, and uterine tissues which are closer to the area of initial exposure? MS. O'DELL: Object to the form. A I think that assumes that proximity and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	is that fair? MS. O'DELL: Object to the form. A I I have done a lot of reading of the inflammation literature. I'm not sure how I would define it as an expert or not an expert expert review. Q (BY MR. ZELLERS) You do know that not all inflammatory conditions lead to cancer, correct? A There's a lot of literature about certain inflammation that causes chronic in particular a lot of different kind of cancers, more publications about acute inflammation that does not lead to cancer. But yes, there are both cancers that are very susceptible to inflammation or caused by it and some that are not. Q Chronic inflammation. There are many chronic inflammatory conditions that do not lead to cancer; is that right? A Yes. Q Do you agree that an agent can be a

	Page 290		Page 292
1	Q Rheumatoid arthritis, that is a chronic	1	A In a few of the papers I reviewed not
2	inflammation condition, but it does not increase the	2	very many of them, but a few of them had a small
3	risk of my ovarian cancer, correct?	3	proportion of women who were exposed to cornstarch
4	A Correct.	4	rather than talc powder products.
5	Q The same with psoriasis; is that right?	5	I I think it they had negative
6	A Not that I know of.	6	results, but they were small a small number of
7	Q Page 41 of your report, you conclude that,	7	women, so I wouldn't use that to prove that it's
8	Regular exposure to talcum powder products causes	8	safe.
9	ovarian cancer in some women.	9	But I don't know of any literature that
10	Do you see that?	10	suggests cornstarch is carcinogenic.
11	A I do.	11	Q Your opinion that talcum powder products
12	Q Is there a certain amount of talcum powder	12	cause inflammation is not based on the determination
13	that a product must contain to cause inflammation?	13	that there is a threshold amount of talcum powder
14	MS. O'DELL: Object to the form.	14	that will be required to be in the product before
15	A I I I do not know of evidence that	15	you can conclude that the product will cause chronic
16	quantifies the amount of exposure that's necessary	16	inflammation; is is that right?
17	that a published literature supports the amount	17	MS. O'DELL: Object to the form.
18	women use is an amount that leads to cancer, but	18	A I I I think I would like to agree.
19	I I don't know if there's a minimum threshold	19	I'm just not sure exactly of what I am agreeing
20	or	20	to. So I I don't know any level
21	Q (BY MR. ZELLERS) Do you consider	21	MS. O'DELL: That's always
22	cornstarch to be a talcum powder product that causes	22	A of
23	inflammation?	23	MS. O'DELL: a good sign you should
24	MS. O'DELL: Object to the form.	24	A I I can't
25	A Talcum powder cornstarch talcum	25	MS. O'DELL: be
	Page 291		Page 293
1	powder causes inflammation. Cornstarch can also	1	A I can't tell exactly what the what
2	cause inflammation.	2	the question is.
3	I believe cornstarch tends to be an acute	3	I there I don't know I don't know
4	inflammatory process rather than a chronic	4	an amount of talcum powder that would make a product
5	inflammation process. But	5	safe.
6	Q (BY MR. ZELLERS) You	6	Q (BY MR. ZELLERS) Do you believe that
7	A I I wouldn't consider cornstarch to	7	cornstarch is a superior alternative to talc?
8	be a talcum powder		A I believe that talcum powder products will
	r	8	A Theneve that talcum powder products will
9	Q Is	9	increase women's risk of cancer, and I would avoid
9 10			• •
	Q Is	9	increase women's risk of cancer, and I would avoid
10	Q Is A product.	9	increase women's risk of cancer, and I would avoid using it as a woman or as a doctor counseling my
10 11	Q IsA product.Q is there a study that you can point me	9 10 11	increase women's risk of cancer, and I would avoid using it as a woman or as a doctor counseling my patients.
10 11 12	Q Is A product. Q is there a study that you can point me to that states that any inflammation from cornstarch is acute and not chronic? MS. O'DELL: Object to the form.	9 10 11 12	increase women's risk of cancer, and I would avoid using it as a woman or as a doctor counseling my patients. Q Well A I don't have views that cornstarch is a carcinogenic product. So in terms of any potential
10 11 12 13	Q Is A product. Q is there a study that you can point me to that states that any inflammation from cornstarch is acute and not chronic? MS. O'DELL: Object to the form. A There's a literature about cornstarch	9 10 11 12 13 14 15	increase women's risk of cancer, and I would avoid using it as a woman or as a doctor counseling my patients. Q Well A I don't have views that cornstarch is a carcinogenic product. So in terms of any potential risk-benefit relationship of cornstarch has the same
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10 11 12 13 14 15 16 17 18 19 20 21 22	Q Is A product. Q is there a study that you can point me to that states that any inflammation from cornstarch is acute and not chronic? MS. O'DELL: Object to the form. A There's a literature about cornstarch leading to acute inflammation, for example, in the surgical literature when it was on surgical gloves or on physical exams which has led to its being removed so so as to reproduce acute inflammatory processes. Q (BY MR. ZELLERS) My question to you is: Are you aware of any literature that states that	9 10 11 12 13 14 15 16 17 18 19 20 21 22	increase women's risk of cancer, and I would avoid using it as a woman or as a doctor counseling my patients. Q Well A I don't have views that cornstarch is a carcinogenic product. So in terms of any potential risk-benefit relationship of cornstarch has the same value in terms of absorbency and much fewer risk of harm, then if that's the question, then I think cornstarch is preferable. Q There are no reports in the literature of externally applied talc leading to inflammation, granulomas, fibrosis, or adhesions anywhere along a women's reproductive tract, correct?

	Page 294		Page 296
1		1	
2	Q (BY MR. ZELLERS) On page 12 of your report you state, The most widely accepted mechanism for	2	inflammation; is that right?
3	initiation, promotion, and progression of ovarian	3	A Yes, they do. Q If inflammation is a mechanism for ovarian
4	cancer is tissue inflammation, leading to a series	4	cancer, you would expect women who use NSAIDS or
5	of responses that result in cancer.	5	aspirin to have a lower risk of ovarian cancer,
6	Do you see that statement?	6	correct?
7	A I do.	7	MS. O'DELL: Object to the form.
8	Q You do not cite any support in your report	8	A Other things being equal, you might expect
9	for that proposition, correct?	9	that if you could measure inflammation or influence
10	MS. O'DELL: Object to the form.	10	it by using NSAIDS, that that might be associated.
11	A I I think my that first paragraph	11	That is true.
12	was sort of an introduction to that section. So	12	Q (BY MR. ZELLERS) The literature, though,
13	then I go on to cite, I I think, the supporting	13	is mixed in terms of whether or not the use of
14	evidence within the next few paragraphs.	14	NSAIDS or aspirin actually reduce the risk of
15	Q (BY MR. ZELLERS) You would agree that	15	ovarian cancer; is that right, or the incidence of
16	research regarding whether chronic inflammation can	16	
17	cause ovarian cancer is ongoing, correct?	17	A So
18	A It's an active area of research.	18	Q ovarian cancer?
19	Q Are you familiar with a paper published by	19	A I have reviewed those papers and would
20	Melissa Merritt in 2008, entitled "Talcum Powder	20	agree with you that some seem to suggest one
21	Chronic Pelvic Inflammation and NSAIDS in Relation	21	direction, some others. I haven't quantified them
22	to Risk of Epithelial Ovarian Cancer"?	22	together or tried to summarize them.
23	A I am.	23	But I would agree. There doesn't seem to
24	Q It's included in your reliance materials	24	be a consistent message in that literature.
25	on page 17; is that right?	25	Q One of those papers is that's included
	. 1.6		F-1
	Page 295		Page 297
1		1	
Т.	A Can you tell me the title again? Yeah.	1	in your reliance list is the Verdoodt 2017 paper; is
2	A Can you tell me the title again? Yeah. Okay.	1 2	that right? That's VERDOODT.
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
2	Okay.	2	that right? That's VERDOODT. A I am going to have to defer to seeing that.
2	Okay. Q Sure. Do you have that or I can	2 3	that right? That's VERDOODT. A I am going to have to defer to seeing
2 3 4	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it.	2 3 4	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe
2 3 4 5	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt	2 3 4 5	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you
2 3 4 5 6	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it.	2 3 4 5 6	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list.
2 3 4 5 6 7	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt	2 3 4 5 6 7	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list. Q I will mark that paper as Exhibit 31.
2 3 4 5 6 7 8 9	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt paper and tell me when you're A I'm there. Q there at the bottom of the first	2 3 4 5 6 7 8 9	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list. Q I will mark that paper as Exhibit 31. (Exhibit 31 was marked for identification
2 3 4 5 6 7 8 9 10	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt paper and tell me when you're A I'm there. Q there at the bottom of the first paragraph of the discussion, the authors conclude,	2 3 4 5 6 7 8 9 10	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list. Q I will mark that paper as Exhibit 31. (Exhibit 31 was marked for identification and is attached to the transcript.)
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2 3 4 5 6 7 8 9 10 11 12 13 14	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt paper and tell me when you're A I'm there. Q there at the bottom of the first paragraph of the discussion, the authors conclude, These results, in combination with previous studies, suggest that chronic inflammation is unlikely to play a major role in the development of ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list. Q I will mark that paper as Exhibit 31. (Exhibit 31 was marked for identification and is attached to the transcript.) A Thank you. Q (BY MR. ZELLERS) And turn, if you will, to page 5 under "Discussion" on the first paragraph.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Okay. Q Sure. Do you have that or I can A No. Q mark it? A No, I have it. Q If you go to page 174 of the Merritt paper and tell me when you're A I'm there. Q there at the bottom of the first paragraph of the discussion, the authors conclude, These results, in combination with previous studies, suggest that chronic inflammation is unlikely to play a major role in the development of ovarian cancer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	that right? That's VERDOODT. A I am going to have to defer to seeing that. Q Okay. Let me A I believe Q show you A it's on my list. Q I will mark that paper as Exhibit 31. (Exhibit 31 was marked for identification and is attached to the transcript.) A Thank you. Q (BY MR. ZELLERS) And turn, if you will, to page 5 under "Discussion" on the first paragraph. A And just to confirm, this is I I
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1	A That is what this author concludes. I'm	1	Q Have you spoken with Dr. Saed?
2	trying to see what references he used for that, but	2	A I have not.
3	that is what he concludes.	3	Q Have you requested any information from
4	Q Okay. And this is an article that was	4	Dr. Saed?
5	published in 2017, correct?	5	A I have not.
6	A Yes.	6	Q The Saed study just looked at immortalized
7	Q Yesterday counsel for plaintiffs indicated	7	cell lines; is that right?
8	that you have in addition to the materials in	8	A Yes, I believe that's how the cell lines
9	your report reviewed a 2018 chapter by Saed and	9	were
10	the Harper and Saed 2019 abstract; is that right?	10	Q Are
11	A I I reviewed several of his abstracts	11	A defined.
12	and and a recent paper, yes.	12	Q are you are you aware that Dr. Saed
13	Q Do you know that Dr. Saed is a paid expert	13	testified that the cells were modified with a virus
14	for the Plaintiffs in this litigation?	14	to make them keep undergoing division in vitro?
15	A I know he's a very well-respected	15	A I I'm aware that that's what happens to
16	scientist that they have supported in his research.	16	cell lines. I I don't believe I saw his
17	Q Is that a yes?	17	deposition to say that.
18	MS. BOCKUS: I object. Nonresponsive.	18	Q Are you aware that Dr. Saed testified that
19	MS. O'DELL: Mike, excuse me.	19	the P53 gene was turned off in those cells?
20	MR. ZELLERS: Sure.	20	A No, I'm not aware.
21	MS. O'DELL: You said the 2019 abstract.	21	Q Are you aware based upon your reading that
22	Did you mean the abstract or the manuscript, just to	22	the loss of the P53 protein contributes to
23	make sure I'm following the conversation?	23	unrestrained cellular proliferation?
24	MR. ZELLERS: I I believe I mean the	24	MS. O'DELL: Object to the form.
25	abstract. But we mean whatever the doctor has in	25	A I I believe that the reason you have
	Page 299		Page 301
1	Page 299 her file that we marked yesterday.	1	Page 301 controls in experiment is to account for the
1 2		1 2	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	her file that we marked yesterday. THE COURT REPORTER: Who objected down there? MS. BOCKUS: Jane Bockus. MS. O'DELL: I think what she had in her file was the manuscript. So I think that's what you marked as an exhibit, but I don't want there to be confusion. Q (BY MR. ZELLERS) You have reviewed several publications within the last year or two from Dr. Saed A Yes. Q is that right? A Yes, I have. THE COURT REPORTER: Wait. MR. ZELLERS: All right. Are you okay, Ms. Court Reporter? THE COURT REPORTER: Yes. I just have to have you wait until the end of the question, please. Q (BY MR. ZELLERS) Let me re-ask my A Please. Q question. Did you know that Dr. Saed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	controls in experiment is to account for the underlying expression in turnover cells so you can compare something you do to the cell versus the baseline in order to account for the baseline, whatever it is, proliferation of the cell or apoptosis levels or expression of oxidants or antioxidants. So I I the way you're asking the question is is: Are you comparing this cell line to living cells in context? And I would agree with you that this cell line is different than living cells in context. But if you're asking if it's a valid comparison to do the experiment in this cell line, it is because you are doing an intervention to those cells that has a control group. And so this cell line has a different behavior than a a living cell does, but provides a comparison group. Q (BY MR. ZELLERS) What methodology did you use to apply Dr. Saed's results to normal cells in actual organs?

Page 302 Page 304 1 different environmental carcinogen -- radiation, for 1 develop enough mutations to develop into cancer. 2 example -- we look at changes of expression, certain 2 But the greater the oxidative stress for 3 3 enzymes in cells to radiation to understand what cancer like ovarian cancer, the greater the chance 4 4 of inducing cancer. that damage does in terms of expression of relevant 5 5 genes, cell proliferation, and things like that. Q Can you cite me to any study that says 6 So I take his research to mean that I can 6 7 understand the changes to pro oxidants to 7 MS. O'DELL: Object to the form. 8 8 A Any study that says that there's a dose antioxidants to apoptosis to gene expression in the 9 9 cell. Not that I can come up with the exact response related to the amount of stress and the 10 quantification in a patient that would correspond to 10 member -- numbers of cancers? 11 it, but rather, what mechanisms will be stimulated 11 Q (BY MR. ZELLERS) That supports, yes, your 12 12 statement and your position. by the talc. 13 13 A I -- the data that I am thinking of -- and So to answer your question, I -- it tells 14 me what parts of the cell are sensitive to it, but 14 I'm not sure if it's quite the same as the question 15 not the quantity that might lead to that 15 that you're asking -- is the number of gene 16 16 mutations is higher in cancer cells than it is in sensitivity. 17 17 Q (BY MR. ZELLERS) Can you cite any data noncancer cells. So --THE COURT REPORTER: In noncancer? 18 showing that the concentrations of exposure used in 18 19 19 the Saed study are the same as would be encountered A In non -- cancer cells have many more 20 with the use of cosmetic talc in the perineal 20 genetic mutations than noncancer cells. 21 21 Both have generic mutations. And the region? 22 A I cannot. That's what I was trying to 22 environment of having more oxidative stress is 23 23 associated with getting more mutations -express. 24 24 Q (BY MR. ZELLERS) If -- if it's --Q Can you cite any data showing that the 25 level of concentration of exposure used in the Saed 25 A -- but --Page 303 Page 305 1 study has ever occurred in women with perineal talc Q -- are you finished? 1 2 2 A -- I -- I am. 3 3 MS. O'DELL: Object to the form. Q Okay. If -- if exposure to a substance 4 4 A I want to clarify my answer. I don't know causes oxidative stress in certain tissue, does that 5 5 those data. mean that the substance will cause oxidative stress 6 Q (BY MR. ZELLERS) Would you agree that 6 in all types of tissues? 7 7 reactive oxygen species are a normal part of cell A No. 8 physiology? 8 Q Does the body have a protective mechanism A Yes. 9 9 that can limit tissue damage from oxidative stress? 10 Q Do all substances that cause oxidative 10 11 stress also cause cancer? 11 Q Are there any publications that you are 12 12 A I think you care about the balance of aware of that indicate that oxidative stress is 13 oxidative, pro oxidative, antioxidative levels. 13 involved in the development of ovarian cancer? 14 That being said, I do not know that every 14 A We discussed earlier that inflammation 15 instance where you have more pro oxidative leads to 15 increases oxidative stress such as pelvic 16 cancer. I know of some where it does. I don't know 16 inflammatory disease leads to oxidative stress. 17 if it always does. 17 And pelvic inflammatory disease is 18 Q Does the presence of oxidative stress in a 18 associated and leads to ovarian cancer. But I'm not 19 19 tissue indicate that cancer will develop in that sure if that's answers the question that you are... 20 20 O Well, if I had more time, we would discuss 21 A I think I mentioned this yesterday, that 21 that at greater length. You're familiar with the 22 there's a sense of a probability. So the 22 term "confounding" is that right? 23 probability will likely increase. 23 A I -- I -- Yes, I'm --24 But most cells, thankfully, will repair 24 Q All right. 25 25 -- familiar with that term. and -- that damage, and so most cells will not

	Page 306		Page 308
1	Q Confounding is where the presence of	1	is unavoidable in this type of summary. The large
2	another association confuses the relationship	2	difference in general between adjusted and crude
3	between the exposure and the disease being studied;	3	results emphasizes the importance of adjustments
4	is is that right?	4	when estimating particular risk?
5	A Yes.	5	THE COURT REPORTER: When estimating?
6	Q Confounding can distort results in	6	MR. ZELLERS: Particular risk.
7	epidemiological studies; is that right?	7	A Are you asking what I meant by that?
8	A Yes.	8	Q (BY MR. ZELLERS) Yes. What did you mean
9	Q Would you agree that residual confounding	9	by that?
10	is possible in every observational study?	10	A Okay. I I would say my sentence is not
11	A Yes.	11	as clear as it should have been. What I mean and
12	Q It's also strike that.	12	I'm not really sure why I pointed this out just for
13	It's possible that unmeasured confounders	13	Berge it's really a general is that the
14	may be present in every observational study,	14	studies they included, adjusted for different
15	correct?	15	covariants.
16	A Yes.	16	They didn't all adjust for the same
17	Q It's impossible to say that all known and	17	covariates. So a variety of covariates, meaning
18	unknown confounding factors have been controlled for	18	they didn't all adjust for the exact same
19	in any given study; is that right?	19	covariates.
20	A Yes.	20	But this is unavoidable in this type of
21	Q Would you agree that there are new factors	21	study. So I was just saying that some of the
22	that are being discussed that are possibly involved	22	included studies adjusted for A, B and C; and others
23	with ovarian cancer that are just being published in	23	were adjusted for B, C, and D; and others D, E, and
24	the literature such as a history of chlamydia	24	F.
25	infection and a history of weight gain during	25	Q Huncharek, page 26. Do you see that
	Page 307		Page 309
1	adolescence?	1	reference where you talk about that study?
2	MS. O'DELL: Object to the form.	2	A Yes.
3	A Chlamydia infection would be the most	3	Q You say that the difference between a
4	common infection of PID, and so that's something	4	relative risk of 1.19 and 1.38 is small; is that
5	that I just mentioned. I'm not sure that that's	5	right?
6	such a new one.	6	MS. O'DELL: You're talking about 2007 or
7	And weight gain during adolescence is	7	2003?
8	something that's of interest across a range of	8	Q (BY MR. ZELLERS) Whichever
9	cancers, like breast cancer. I don't know it	9	A Which page?
		1 10	0 26
10	personally around ovarian cancer, but	10	Q so page 26
11	Q (BY MR. ZELLERS) Those factors that we	11	MS. O'DELL: They're both on the same
11 12	Q (BY MR. ZELLERS) Those factors that we just talked about generally have not been controlled	11 12	MS. O'DELL: They're both on the same page.
11 12 13	Q (BY MR. ZELLERS) Those factors that we just talked about generally have not been controlled for in any of the published talcum powder ovarian	11 12 13	MS. O'DELL: They're both on the same page. Q (BY MR. ZELLERS) I think I'm looking at
11 12 13 14	Q (BY MR. ZELLERS) Those factors that we just talked about generally have not been controlled for in any of the published talcum powder ovarian cancer studies; is that right?	11 12 13 14	MS. O'DELL: They're both on the same page. Q (BY MR. ZELLERS) I think I'm looking at the one at the bottom.
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	Page 310		Page 312
1	A but yes.	1	A Yeah.
2	Q All right. And and so a difference in	2	Q yesterday?
3	odds ratios of .19, you would consider that to be a	3	A So the most important as it points out
4	small difference?	4	here in in Huncharek, the next sentence of where
5	MS. O'DELL: Object to the form.	5	we are, is that this review looked at any exposure
6	A You're asking why I said those differences	6	rather than quantifying.
7	are small?	7	And I think the primary concern that I had
8	Q (BY MR. ZELLERS) No. Well, what I guess	8	was that any exposure is a very vague definition.
9	what I want to know is: Would you agree that the	9	And I thought it was much more important to have a
10	difference between an odds ratio of 1.0 and 1.2 is	10	meaningful measure of exposure.
11	small?	11	So the studies that I primarily included
12	MS. O'DELL: Object to the form.	12	were ones that had quantification of the exposure,
13	A I think the question of whether or not you	13	but also had some other requirements.
14	have a difference of absolute odds of .2 along	14	I I I want to say that my systematic
15	different values means the same thing. And I would	15	review was one piece of the information that I
16	say it doesn't mean the same thing.	16	considered, but my summary estimate in the
17	So if you have an odds ratio as an example	17	systematic review that I completed had the same
18	of 4.7 versus 4.9, they're kind of the same number.	18	conclusion as all these other systematic reviews.
19	If you have a number that's 1.0 versus 1.2, those	19	In the ballpark, it just gave me greater
20	are not the same number.	20	confidence that we were truly looking at regular
21	So I don't think you would want to assume	21	exposure rather than any exposure.
22	the shift in the absolute magnitude of the	22	Now, we know that the most common exposure
23	difference in odds. I often published difference in	23	is regular exposure. That's the the more
24	odds ratios of .2 is stable.	24	important most common.
25	But I think is your point is well taken	25	Q Take a look at page 39 in your report
	Page 311		Page 313
1	Page 311 that that's not a trivial difference. I was just	1	Page 313 where you discuss temporality; is that right?
1 2		1 2	
	that that's not a trivial difference. I was just		where you discuss temporality; is that right?
2	that that's not a trivial difference. I was just saying in the context of a systematic review, those	2	where you discuss temporality; is that right? A Yes. Q You say that women may use talc when undergoing ovarian cancer treatment.
2	that that's not a trivial difference. I was just saying in the context of a systematic review, those are both very strong, positive associations, and	2 3	where you discuss temporality; is that right? A Yes. Q You say that women may use talc when
2 3 4	that that's not a trivial difference. I was just saying in the context of a systematic review, those are both very strong, positive associations, and that's a relatively minor difference. Q (BY MR. ZELLERS) An odds ratio range of 1.19 to 1.38 is much closer to an odds ratio of 1.0	2 3 4	where you discuss temporality; is that right? A Yes. Q You say that women may use talc when undergoing ovarian cancer treatment. Do you see that? A Yes.
2 3 4 5	that that's not a trivial difference. I was just saying in the context of a systematic review, those are both very strong, positive associations, and that's a relatively minor difference. Q (BY MR. ZELLERS) An odds ratio range of	2 3 4 5	where you discuss temporality; is that right? A Yes. Q You say that women may use talc when undergoing ovarian cancer treatment. Do you see that? A Yes. Q What is your support for that or what is
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	Page 314		Page 316
1	Q Do you believe that talcum powder, which	1	A I I haven't seen any.
2	does not contain asbestos, causes ovarian cancer?	2	Q (BY MR. ZELLERS) Have you requested any?
3	A I don't have any data on which to conclude	3	MS. O'DELL: Object to the form. There
4	based on epidemiologic evidence that there is such a	4	have been no defense expert reports in this case.
5	product, so I don't know that there is any product	5	MR. ZELLERS: Counsel, please object to
6	that has been studied that doesn't contain asbestos	6	form. There have been many defense expert reports
7	and fibrous talc.	7	in the talcum powder litigation generally.
8	I think in a laboratory setting, people	8	But my question was whether or not she has
9	have studied products that they describe as being	9	seen anything, so she can I think she has already
10	asbestos free, and those products do cause cellular	10	answered.
11	damage.	11	Q (BY MR. ZELLERS) Is that right? Have you
12	But from an epidemiologic perspective,	12	answered the question?
13	which is primarily the data I looked at, all of the	13	MS. O'DELL: Object to the form.
14	products that have been studied, I believe contain	14	A I have asked to seen reports. No. I have
	-	15	asked to seen testing results. I have not asked to
15	asbestos and fibrous talc.		
16	Q You have made an assumption or it is your	16	seen reports.
17	belief that all talcum powder products contain	17	Q (BY MR. ZELLERS) Have you seen testing
18	asbestos; is that right?	18	results from the FDA and its testing of talcum
19	MS. O'DELL: Object to the form.	19	powder?
20	A My belief is that many talcum powder	20	A I have.
21	products contain asbestos or	21	Q The FDA did some testing in 2010. Did you
22	Q (BY MR. ZELLERS) If	22	see those results?
23	A fibrous.	23	A I did.
24	Q if your assumption about contamination	24	MS. O'DELL: Do you need a break or are
25	of talcum powder products with asbestos were not	25	you good or
	Page 315		Page 317
1		1	
1 2	true, would that change your opinions in this case?	1 2	A I actually would love a a break. I
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page, the second paragraph, We contracted with AMA	1	would like take adits all of my muhilipations
		would like she edits all of my publications
Analytical Services of Lanham, Maryland, to conduct	2	before I submit them.
this laboratory service or strike that survey.	3	Q (BY MR. ZELLERS) When we left the last
	4	session, I asked you about asbestos and whether or
-	5	not asbestos is contained in talcum powder.
Q On the second page.	6	Is there any amount of asbestos that would
A The second page.	7	be safe in talcum powder products?
Q The second paragraph, the second	8	A And the simple answer would be no, I don't
A Yes.	9	think there's any amount that would be safe in
Q sentence	10	talcum powder products.
A yes. Yes. Thank you.	11	Q All right. Is there any amount of trace
Q All right.	12	metals that would be safe in talcum powder products?
A Yes.	13	MS. O'DELL: Object to the form.
Q And at least based upon this report, no	14	A I believe there would be amounts of trace
	15	metals that would be acceptable.
_	16	Q (BY MR. ZELLERS) Are there any amounts of
	17	fragrance chemicals that would be safe in talcum
	l .	powder products?
	19	A I believe there would be in certain
	l .	categories. And in others, there would not.
		Q There have been no fragrance chemicals, to
		your knowledge, that have been found in a study to
		be associated with ovarian cancer, correct?
		MS. O'DELL: Object to the form.
We are now off the record.	25	A I I know of no no such exploration.
Page 319		Page 321
(A break was taken from 10:47 a m. to 1	1	Q (BY MR. ZELLERS) Do you have an opinion on
`		what type of asbestos is in talcum powder products?
		A I believe asbestos is sort of a family of
	4	chemicals. I think there are six that kind of get
-	5	grouped together. I think all of them have been
Volume II.	6	identified in talcum powder products, but I don't
Q (BY MR. ZELLERS) Dr. Smith-Bindman, I was	7	know the distribution of the different kinds.
handed the invoice for Chris Tachibana, which we	8	Q What type of asbestos is associated with
have marked as Exhibit 33.	9	ovarian cancer? And by that question, you believe
(Exhibit 33 was marked for identification	10	that there's six subtypes of asbestos
and is attached to the transcript.)	11	MS. O'DELL: Object to the form.
Q (BY MR. ZELLERS) Is that the invoice that	12	Q (BY MR. ZELLERS) is that generally your
your copy editor provided to you?	13	understanding?
A Yes.	14	A It's generally my understanding.
Q Are there any other invoices that you have	15	Q Are are you able to give us any
received from her?	16	opinions with respect to what type or types of
A No.	17	asbestos is associated with ovarian cancer?
Q Do you expect there to be any other work	18	A The the strongest summary of the
that Ms. Tachibana does with respect to your report?	19	relationship that I know about is in the IARC 2012
A Not with respect to my report.	20	reports.
If I move ahead to publish these results,	21	And those are from a number of different
then I would likely reach out to her to help as	22	studies, including some cohort studies and case
	23	control studies.
well.	l .	
well. THE COURT REPORTER: To help? A If we choose to publish the results, I	23 24 25	To my knowledge, I don't know that they have divided them by the type of mineral silicate
	Do you see that? A I don't. I'm on the right page. Q On the second page. A The second page. Q The second paragraph, the second A Yes. Q sentence A yes. Yes. Thank you. Q All right. A Yes. Q And at least based upon this report, no asbestos was detected in the talcum powder that was tested; is that right? A In the reports that they show, which might my understanding is that they had two samples of baby powder, talcum powder in this. And that in those two specimens using the testing method they used, they didn't find evidence of asbestos. MR. ZELLERS: All right. Let's take a break. THE VIDEOGRAPHER: The time is 10:47 a.m. We are now off the record. Page 319 (A break was taken from 10:47 a.m. to 1 11:00.) THE VIDEOGRAPHER: It's 11:00 a.m. We are now back on the record. Here begins Media No. 2 of the deposition of Dr. Rebecca Smith-Bindman, I was handed the invoice for Chris Tachibana, which we have marked as Exhibit 33. (Exhibit 33 was marked for identification and is attached to the transcript.) Q (BY MR. ZELLERS) Is that the invoice that your copy editor provided to you? A Yes. Q Are there any other invoices that you have received from her? A No. Q Do you expect there to be any other work that Ms. Tachibana does with respect to your report? A Not with respect to my report. If I move ahead to publish these results,	Do you see that? A I don't. I'm on the right page. Q On the second page. A The second page. Q The second page. Q The second paragraph, the second A Yes. Q sentence A yes. Yes. Thank you. Q All right. A Yes. Q And at least based upon this report, no asbestos was detected in the talcum powder that was tested; is that right? A In the reports that they show, which might my understanding is that they had two samples of baby powder, talcum powder in this. And that in those two specimens using the testing method they used, they didn't find evidence of asbestos. MR. ZELLERS: All right. Let's take a break. THE VIDEOGRAPHER: The time is 10:47 a.m. We are now off the record. Page 319 (A break was taken from 10:47 a.m. to 1 11:00.) THE VIDEOGRAPHER: It's 11:00 a.m. We are now back on the record. Here begins Media No. 2 of the deposition of Dr. Rebecca Smith-Bindman, Ph.D., Volume II. Q (BY MR. ZELLERS) Dr. Smith-Bindman, I was handed the invoice for Chris Tachibana, which we have marked as Exhibit 33. (Exhibit 33 was marked for identification and is attached to the transcript.) Q (BY MR. ZELLERS) Is that the invoice that your copy editor provided to you? A Yes. Q Are there any other invoices that you have received from her? A No. Q Do you expect there to be any other work that Ms. Tachibana does with respect to your report? A Not with respect to my report. If I move ahead to publish these results,

	Page 322		Page 324
1	fibers that were in those studies.	1	A I did not.
2	Q What amount of asbestos exposure is	2	Q Would you agree that research on the
3	associated with ovarian cancer?	3	potential relationship between asbestos and ovarian
4	MS. O'DELL: Object to the form.	4	cancer has only considered a small number of cases?
5	A To the best of my knowledge, the amount	5	MS. O'DELL: Object to the form.
6	that's contained within talc powder products is	6	A I think the IARC review on the
7	probably associated with the amount that's in	7	occupational exposures to asbestos had quite a
8	there is probably the cancer.	8	number of cancers, but I would have to go back to
9	Q (BY MR. ZELLERS) Can you be any more	9	those studies to remember the number.
10	definitive?	10	Q (BY MR. ZELLERS) Did you review the Reid
11	A The talcum powder products that women have	11	2011 study?
12	used is associated with ovarian cancer. And I	12	A I believe that's one that I I reviewed.
13	believe that to know how much asbestos it takes to	13	Q Do you need me to hand that to you if
14	cause cancer, the easiest way to answer that is to	14	A Yes
15	quantify how much asbestos is within the	15	Q ask you a couple of questions about it?
16	the powder products.	16	A please.
17	So I'm not in any way an expert on this.	17	Q Now, in the Reid 2011 paper, which we will
18	But in the Longo report, it talked about an average	18	mark as Exhibit 34
19	of 50,000 particles of asbestos being in each	19	A And is that one of the studies that
20	gram of on average in each gram of baby powder	20	Camargo included in I think it is in his
21	products.	21	systematic review? Yeah. So this is a different
22	And he estimates that in a container, that	22	systematic review.
23	would be millions of particles, which seems like a	23	(Exhibit 34 was marked for identification
24	large number to me, but so I don't know the	24	and is attached to the transcript.)
25	amount that would be required to be carcinogenic,	25	Q (BY MR. ZELLERS) Do you recognize
	Page 323		Page 325
1	but that's the amount that they were exposed to that	1	Exhibit 34?
2	was carcinogenic.	2	A No.
3	Q What type of ovarian cancer is asbestos	3	Q Okay. Well, Exhibit 34 is a study and
4	associated with?	4	and a review by the first named author, Allison
5	MS. O'DELL: Object to the form.	5	Reid.
6	A I think the most stable estimate of the	6	"Does Exposure to Asbestos Cause Ovarian
7	association of talcum powder products with ovarian	7	Cancer?"
8	cancer is for all ovarian cancer and the	8	A I I have seen this paper.
9	meta-analysis that others did. And my summary	9	Q All right.
		10	A I'm sorry. I didn't remember. So sorry.
10	estimate was for all ovarian cancer epithelial	1 10	A Thi sorry. I didn't remember. So sorry.
10 11	estimate was for all ovarian cancer epithelial ovarian cancer, I should say.	11	· · · · · · · · · · · · · · · · · · ·
	ovarian cancer, I should say.	1	Q If you look at her conclusions or the author's conclusions on the right-hand side of the
11		11	Q If you look at her conclusions or the
11 12	ovarian cancer, I should say. In my more limited review, I focused on	11 12	Q If you look at her conclusions or the author's conclusions on the right-hand side of the
11 12 13	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common	11 12 13	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm
11 12 13 14	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the	11 12 13 14	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes.
11 12 13 14 15	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the one where there's enough statistical power to quantify the association, so I think the data are	11 12 13 14 15	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes. Q looking right here A Yes.
11 12 13 14 15 16	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the one where there's enough statistical power to	11 12 13 14 15 16	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes. Q looking right here
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11 12 13 14 15 16 17	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the one where there's enough statistical power to quantify the association, so I think the data are the most compelling for serous ovarian cancer. But the overall meta-analysis looks at any	11 12 13 14 15 16 17 18	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes. Q looking right here A Yes. Q the relationship between asbestos exposure and ovarian cancer is not well
11 12 13 14 15 16 17 18	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the one where there's enough statistical power to quantify the association, so I think the data are the most compelling for serous ovarian cancer. But the overall meta-analysis looks at any cancer, and that's what we did as well.	11 12 13 14 15 16 17 18 19	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes. Q looking right here A Yes. Q the relationship between asbestos exposure and ovarian cancer is not well understood is not as well understood as as
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11 12 13 14 15 16 17 18 19 20 21	ovarian cancer, I should say. In my more limited review, I focused on serous cancer, because I think as the most common cancer the most common invasive cancer, it's the one where there's enough statistical power to quantify the association, so I think the data are the most compelling for serous ovarian cancer. But the overall meta-analysis looks at any cancer, and that's what we did as well. Q You you looked at talcum powder, correct? A Talcum powder products, yes.	11 12 13 14 15 16 17 18 19 20 21 22	Q If you look at her conclusions or the author's conclusions on the right-hand side of the first page so I'm A Yes. Q looking right here A Yes. Q the relationship between asbestos exposure and ovarian cancer is not well understood is not as well understood as as that of asbestos-related diseases. Studies that have examined this issue have been limited for two major reasons.

	Page 326		Page 328
1	mesothelioma and ovarian cancer; is is that	1	author state, Further limitation of our analysis was
2	right?	2	its inability to account for nonoccupational risk
3	MS. O'DELL: Object to the form.	3	factors for ovarian cancer other than age?
4	A So this those are the conclusions that	4	A Yes, I do see that.
5	she makes. But I I want just to explain what she	5	Q On page 25 I'm sorry 1215. So the
6	means by "small number of cases."	6	page before the second paragraph under "Discussion,"
7	She's comparing it to the number of men	7	they talk about Edelman 1992; is that right?
8	exposed to asbestos. Just there there are many	8	A Yes.
9	more men exposed to asbestos than than women	9	Q And the authors state, They concluded,
10	exposed to asbestos.	10	however, that despite the positive and significant
11	So I think I mean, I I think it's a	11	association, there was insufficient information to
12	challenge, but I wouldn't say that there are a	12	infer that ovarian cancers were caused by
13	small number of cases.	13	occupational exposure to asbestos
14	MR. ZELLERS: Move to strike as	14	A I I'm sorry. I
15	nonresponsive.	15	Q Sure.
16	Q (BY MR. ZELLERS) Would you agree that most	16	A I I'm lost. Where are we?
17	of the studies that have been done and the data that	17	Q Okay. So do you see under "Discussion"
18	exists relates to occupational exposure of asbestos	18	A Yes.
19	and ovarian cancer?	19	Q the second paragraph
20	A Yes. I	20	A Yes.
21	Q All right.	21	Q I believe the second sentence? It
22	A yes.	22	says, They concluded.
23	Q You looked at the Camargo paper 2011; is	23	Are you with me?
24	that right?	24 25	A Yes. They are describing another
25	A Yes.	25	meta-analysis
	Page 327		Page 329
1	Q That study points out that there's an	1	Q Yes.
2	inability to account for nonoccupational risk	2	A they concluded, yes.
3	factors for ovarian cancer in these studies other	3	Q This this is a review of different meta
4	than age; is that right?	4	
5	MS. O'DELL: If if you remember. If	5	A Yeah.
6	you need to see	6	Q analyses; is that right?
7	A I I don't remember.	7	A Yes.
8	Q (BY MR. ZELLERS) All right. Do you have	8	Q And they're describing Edelman 1992. And
9	the Camargo paper in front	9	they state, They concluded, however, that despite
10	A I	10	the positive and significant association, there was
	Q of you or would you like me to give it	11	insufficient information to infer that ovarian
11			
12	to you?	12	cancers were caused by occupational exposure to
12 13	A please.	13	asbestos because of concerns about tumor
12 13 14	A please. Q Camargo 2011, we will mark as deposition	13 14	asbestos because of concerns about tumor misclassification, inappropriate comparison
12 13 14 15	A please. Q Camargo 2011, we will mark as deposition Exhibit 35.	13 14 15	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account
12 13 14 15 16	A please. Q Camargo 2011, we will mark as deposition Exhibit 35. (Exhibit 35 was marked for identification	13 14 15 16	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account for known risk factors.
12 13 14 15 16 17	A please. Q Camargo 2011, we will mark as deposition Exhibit 35. (Exhibit 35 was marked for identification and is attached to the transcript.)	13 14 15 16 17	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account for known risk factors. Is that right?
12 13 14 15 16 17	A please. Q Camargo 2011, we will mark as deposition Exhibit 35. (Exhibit 35 was marked for identification and is attached to the transcript.) A Thank you.	13 14 15 16 17 18	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account for known risk factors. Is that right? A You're reading from Camargo, who is
12 13 14 15 16 17 18	A please. Q Camargo 2011, we will mark as deposition Exhibit 35. (Exhibit 35 was marked for identification and is attached to the transcript.) A Thank you. Q (BY MR. ZELLERS) Do you have that in front	13 14 15 16 17 18 19	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account for known risk factors. Is that right? A You're reading from Camargo, who is quoting from a discussion by Edelman, so that
12 13 14 15 16 17 18 19	A please. Q Camargo 2011, we will mark as deposition Exhibit 35. (Exhibit 35 was marked for identification and is attached to the transcript.) A Thank you. Q (BY MR. ZELLERS) Do you have that in front of you now?	13 14 15 16 17 18 19 20	asbestos because of concerns about tumor misclassification, inappropriate comparison populations, and the failure to take into account for known risk factors. Is that right? A You're reading from Camargo, who is quoting from a discussion by Edelman, so thatthat's what it says. I I don't I don't know
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	Daga 220		Dog 222
	Page 330		Page 332
1	substantial amounts of asbestos?	1	Q Okay. So when if you answered a
2	MS. O'DELL: Object to the form.	2	question, is it because you believe you understood
3	A I I'm confused. I'm confused. Are you	3	it and that you felt able to answer it?
4	saying women exposed to asbestos are not getting	4	A Yes.
5	mesothelioma?	5	MS. O'DELL: Object to the form.
6	Q (BY MR. ZELLERS) Well, let me ask it this	6	Q (BY MS. BOCKUS) Okay. So before being
7	way: Are are women who use talc in the perineal	7	hired in this case, you had not really looked at the
8	region at greater risk of mesothelioma?	8	association between talc and ovarian cancer; is that
9	A I do not know studies that have said that.	9	fair?
10	Q Are women who use talc in the perineal	10	A That's correct.
11	region at greater risk of asbestosis?	11	Q The person who wrote to you first, do you
12	A In the lungs?	12	remember if it was a male or a female, the attorney?
13	Q Yes.	13	A I think it was a women.
14	A I I do not know those studies.	14	Q Okay. And have you tell me what search
15	Q With respect to fragrance chemicals, you	15	you have done to locate that person's name.
16	have no evidence that the blood or tissue levels of	16	A I could probably search some more. I
17	any trace metals are higher in genital talc users	17	I my correspondence with these lawyers that I
18	compared to nonusers, correct?	18 19	have a document of on my computer is from July.
19	A I I don't know that literature at all.	20	But Mike reminded me that I must have met
20	Q And you have no knowledge as to either the	21	with them in June. So I could go through there
21	amount or concentration of different fragrance	22	are ways I can access older e-mails to look if
22 23	chemicals in the baby powder, correct? A I I do not.	23	that's important to you. I'm happy to try and find
24	MR. ZELLERS: Okay. I have no further	24	that person. Q I just was curious. There because you
25	questions. My colleagues may have some questions.	25	have nothing in the published literature about the
23	questions. Twy coneagues may have some questions.	25	have nothing in the published interactive about the
	Page 331		Page 333
1	Page 331 MS. BOCKUS: Could we go off the record	1	Page 333 etiology of ovarian cancer, correct?
1 2		1 2	
	MS. BOCKUS: Could we go off the record		etiology of ovarian cancer, correct?
2	MS. BOCKUS: Could we go off the record for just a minute to move the microphone down?	2	etiology of ovarian cancer, correct? A I do not. And I will tell you I asked the
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Page 334 Page 336 A So I have given a lot of interviews, and I 1 1 about a quantitative association, but rather, the 2 often identify as a professor of epidemiology and 2 biases and legitimacy of the association. 3 3 biostatistics. I'm not sure what interview that you Q Are you familiar with the text "Analysis 4 4 of Case-Control Studies" by Breslow and Day? are looking at. 5 5 A I -- I -- yes. I often -- often introduce myself as a 6 professor of obstetrics, gynecology, and 6 Q Do you find that to be a reliable text on 7 reproductive sciences. 7 the subject of the analysis of case-control studies? 8 And my guess is that whomever is 8 MS. O'DELL: Object to the form. 9 publishing the interview will choose to present me 9 A I -- I don't know that chapter or section 10 in a way that they think highlights my skill. 10 enough to answer that question without looking at 11 But -- but my -- I'm a professor in 11 12 radiology and epidemiology and biostatistics, 12 Q (BY MS. BOCKUS) But you're familiar with 13 obstetrics, gynecology, and a member of the Philip 13 their work? 14 R. Lee Institute for Health Policies Studies. 14 A Yes. 15 So I -- I get presented with whichever of 15 Q And they're well-respected 16 those first the presenter thinks might highlight my 16 epidemiologists? 17 expertise. 17 A Yes. 18 Q Are you board-certified in obstetrics and MS. O'DELL: Object to the form. 18 19 gynecology? Q (BY MS. BOCKUS) You make a statement in 19 20 A I'm not. 20 your report on page 12 that the most widely accepted 21 O The Bradford Hill criteria, the first 21 mechanism for initiation, promotion, and progression 22 consideration is the "strength of the association"; 22 of ovarian cancer is tissue inflammation leading to 23 is that correct? 23 a series of responses that result in cancer. 24 A First criteria? Yes. 24 And you have talked about that sentence a 25 Q What do you consider to be a strong 25 bit with Mr. Zellers already. Page 335 Page 337 1 1 association? Did you do a survey of the literature to 2 2 A So it overlaps a little bit with the determine what was the most widely accepted 3 second concept of Bradford Hill in the consistency 3 mechanism for initiation of ovarian cancer? 4 of -- of the data. 4 A I did. 5 5 But where the association is meaningfully Q And did you do a survey of the cancer 6 and legitimately documented across study designs and 6 biology literature? 7 patient populations such that the association is 7 MS. O'DELL: Object to the form. 8 believable and meaningful, not necessarily 8 A What was the first literature you asked me 9 associated with a particular point estimate of 9 about? 10 association, if that's the question. 10 Q (BY MS. BOCKUS) The literature that 11 I don't have any particular number. It's 11 supported your statement that the most widely 12 rather the entirety of the relationship, that it's a 12 accepted mechanism was inflammation. 13 13 meaningful quantifiable association. And you said you did a survey on the 14 Q Do you teach epidemiology? 14 inflammation literature -- or I mean on the 15 A I do. 15 etiology -- let me start all over again. 16 Q Can you identify textbooks that you find 16 Have you done a survey on articles that 17 reliable on the subject of epidemiology? 17 discuss the likely mechanism for the etiology of 18 A The textbook that I often use to teach 18 ovarian cancer? 19 epidemiology is a book -- I -- I'm not sure if the 19 A Yes, I have. 20 authorship has changed over the years, but by holly 20 Q Have you -- have you -- did your survey 21 Cummings that talks about principles of 21 include the literature on the cancer biology --22 epidemiology. It's sort of the clearest version 22 A Yes. 23 that I know. 23 -- of --Q 24 And -- and they -- and I haven't looked 24 A Yes, it did. 25 this particular question up, but they wouldn't talk 25 Q -- of ovarian cancer?

	Page 338		Page 340
1	A Yes, it did.	1	with body powder use and ovarian cancer, correct?
2	Q And did you find that as the issue of	2	MS. O'DELL: Object to the form.
3	inflammation as an initiator of ovarian cancer is	3	A I I'm going to go back to say that I
4	not a settled question?	4	I don't know what the strength of the association is
5	MS. O'DELL: Object to the form.	5	with with these individual cancers.
6	A I I would acknowledge that that none	6	I I don't know if it's a 20 percent
7	of it is settled. It's just the most widely	7	increase or a 500 percent increase, except for the
8	accepted, most widely supported, most wide widely	8	one that I gave the example of of bladder cancer.
9	enhanced view supported by the data, but I don't	9	So for bladder cancer, I gave two examples
10	think the issue is settled.	10	that cause inflammation of the bladder. One being
11	Q (BY MS. BOCKUS) In fact, there's still	11	toxic chemicals and the second being cigarette
12	considerable research going on on the subject	12	smoking.
13	A Yes	13	The toxic chemicals have a very strong
14	Q correct?	14	relative risk of 200 or 300, where I think smoking
15	A I think there is.	15	has a relative risk of more like 1.3.
16	Q In the next paragraph you talk about, for	16	And so I I I don't know it for these
17	example, this is the middle there are	17	other cancers. But at least for bladder cancer,
18	well-described and accepted causal pathways	18	which I think is I think the second most common
19	linking in linking inflammation to bladder	19	cancer and cigarette smoke is I think the
20	cancer, gastric cancer, colon cancer, et cetera.	20 21	association in the ballpark of 1.3. I think I have it in here. But so for
21	You would agree and you identify the	21	
22	inflammatory sometimes virus or whatever that's	22	most of these, I don't know what that number is.
23 24	that's well described and accepted for all of the different cancers that you list there, correct?	23	MS. BOCKUS: I'm going to object as
25	For example, you identify toxic chemicals	25	nonresponsive. Q (BY MS. BOCKUS) Because the question I
<u> </u>	roi example, you identify toxic chemicals	25	Q (B1 W.S. BOCKOS) Because the question 1
	D 220		
	Page 339		Page 341
1	for the etiology of bladder cancer, correct?	1	Page 341 asked was about the HPV virus and cervical cancer
1 2	for the etiology of bladder cancer, correct? MS. O'DELL: Object to the form.	1 2	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	for the etiology of bladder cancer, correct? MS. O'DELL: Object to the form. Q (BY MS. BOCKUS) Do you see where I'm reading? A I I don't see where you're reading exactly, but but I agree with you that I have given examples where we know the cause of the inflammation for many of those cancers. Q (BY MS. BOCKUS) You would agree that there is no equivalent literature linking ovarian cancer to talcum powder use, correct? MS. O'DELL: Object to the form. A I think there's a strong literature on components of the analysis. But I think for several of the examples I have given, the data are a little bit clearer and further along. So path HPV and cervical cancer has a longer historical data collection period when we have them Q (BY MS. BOCKUS) And A identified. So I think that's your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	asked was about the HPV virus and cervical cancer A I don't Q correct? A know the the relative Q All right. A risk for that. But I I thought I said the only one I do know is the bladder cancer numbers. Q Has your methodology in determining what studies to include and what studies to exclude been peer reviewed in any way, shape, or form? A It has not. Q Has your math A Oh, I'm sorry. Has my methodology been peer reviewed? Q In in this particular case, the method A Okay. The method has been peer reviewed. But in this particular case, it has not. Q So no one has looked over your report and determined whether your decision and as I
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	Page 342		Page 344
1	Q and	1	Q Would you agree that you're at this
2	A it was a decision between myself and	2	point in time your report is not yet ready to be
3	the and and Dr. Hall	3	submitted for peer review?
4	Q So	4	MS. O'DELL: Object to the form.
5	A just the two of us.	5	A I would agree that the description in this
6	Q okay. So did Dr. Hall participate in	6	report needs more detail, more to submit it to
7	the decision-making process as to which of the	7	peer review. Not necessarily different work, but
8	case-control studies and the cohort studies to	8	definitely different detail and description.
9	include and which to exclude?	9	Q (BY MS. BOCKUS) Have you satisfied
10	A It so it's it's a the answer is	10	yourself that the studies that you did include do
11	partly and partly not.	11	not overlap with regard to patients; that you
12	So in terms of whether the studies were	12	haven't counted the same patients multiple times?
13	included in the final analysis, Dr. Hall was	13	A I I am comfortable that I did my best
14	involved in that decision.	14	to do that. But I know there were some cases where
15	But in terms of setting up the question to	15	I felt like I wasn't 100 percent sure.
16	begin with, she was not involved in that. I I	16	Q And you would agree that by including
17	set that up.	17	the same cases and controls multiple times could
18	Q So other than you and Dr. Hall, has anyone	18	skew the the data?
19	been involved in the process of determining which	19	MS. O'DELL: Object to the form.
20	studies were going to be involved in were	20	A I think that that theoretically is a
21	going to be included in your systematic review and	21	concern of mine, which is why I try to you exclude
22	which were not?	22	them if there was overlap.
23	A Nobody else.	23	On a practical level, the benefit of
24	Q Okay. And has anyone other than you and	24	pooling data from multiple sources is that the final
25	Dr. Hall even checked your work for transcription	25	summary is less sensitive to any individual result,
	Page 343		Page 345
1	errors?	1	let alone some patients that might overlap.
2	MS. O'DELL: Object to the form.	2	But I agree with you that you want to
3	A No.	3	avoid that because of that concern.
4	Q (BY MS. BOCKUS) And has anyone other than		
		4	Q (BY MS. BOCKUS) All right. Would you turn
5	you and Dr. Hall checked your work for mathematical	4 5	Q (BY MS. BOCKUS) All right. Would you turn to page 35 of your study. And I am looking at
5 6			Q (BY MS. BOCKUS) All right. Would you turn to page 35 of your study. And I am looking at the right in the middle of the page, the
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6 7	you and Dr. Hall checked your work for mathematical errors? A No.	5 6 7	Q (BY MS. BOCKUS) All right. Would you turn to page 35 of your study. And I am looking at the right in the middle of the page, the paragraph that starts with the word, Further talc
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6 7 8 9	you and Dr. Hall checked your work for mathematical errors? A No. Q You excluded all of the data from the cohort studies with the exception of the earliest	5 6 7 8 9 10 11	Q (BY MS. BOCKUS) All right. Would you turn to page 35 of your study. And I am looking at the right in the middle of the page, the paragraph that starts with the word, Further talc particles. But I'm going to the last sentence in the paragraph. "The greater frequency at which talc
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you and Dr. Hall checked your work for mathematical errors? A No. Q You excluded all of the data from the cohort studies with the exception of the earliest reported data from the Nurses' Health Study; is that correct? A Yes. MS. O'DELL: Object to the form. Q (BY MS. BOCKUS) Did you run the the the numbers to determine if there would be a difference if you included the data from all the cohort studies and if you excluded them? A So the requirement to be in our review was to have a measure of regular use of talcum powder products, and those other studies didn't have something to plug into that equation. So so I didn't have a number from those studies to include in a sensitivity analysis. They	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q (BY MS. BOCKUS) All right. Would you turn to page 35 of your study. And I am looking at the right in the middle of the page, the paragraph that starts with the word, Further talc particles. But I'm going to the last sentence in the paragraph. "The greater frequency at which talc particles are discovered in ovarian cancerous tissue than in normal ovarian tissue further supports that these target particles may be causing cancer." You don't have a source for that. You don't cite to any study. And I would like to know where you got that information. MS. O'DELL: Objection to form. A I would have to review Heller and Henderson. No. Henderson is just cancer. So I would have to review review
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	Page 346		Page 348
1	Q (BY MS. BOCKUS) The next statement has to	1	attorney who represents Defendant Personal Care
2	do with the reduction in incidence of ovarian cancer	2	Products Council.
3	after tubal ligation or hysterectomy?	3	So for purposes of this deposition when I
4	A Yes.	4	reference "Personal Care Products Council," I mean
5	Q Is it not correct that that statement is	5	PCPC or CPFA or any of its predecessors. Is that
6	true for both women who have used talcum powder	6	okay?
7	product and who let me ask a better question.	7	A Yes.
8	Here you're talking about that the	8	Q So I want to turn to Exhibit 15, which is
9	elevated that studies that look at the risk of	9	your reference list. And that reference list is
10	ovarian cancer associated with powder products	10	Exhibit B of your expert report; is that correct?
11	report a reduction in risk after hysterectomy or	11	A Yes.
12	tubal ligation, correct?	12	Q And if you can turn to page 19 of that
13	A Yes.	13	reference list. And just let me know when you're
14	Q Isn't that also true in the general	14	there.
15	population for all women, that there whether they	15	A I am there.
16	have used talcum powder products or not, that their	16	Q And if you go about 75 percent of the way
17	risk of ovarian cancer is reduced by hysterectomy or	17	down, there's a reference to a PCPC document.
18	oophorectomy	18	Do you see that?
19	A Yes.	19	A Yes.
20	Q or tubal ligation? I'm sorry.	20	Q Do you happen to know what that document
21	A Yes. It's even more reduced by	21	is?
22	oophorectomy.	22	A I do not.
23	Q Well, sure. I misspoke.	23	Q Did you rely on this document
24	MS. BOCKUS: I believe that's all the	24	A You would have to
25	questions I have. Thank you.	25	MS. O'DELL: Object to the form. Excuse
	Page 347		Page 349
1	MS. O'DELL: Why don't we go off the	1	me. Object to the form. If if
2	record. I'm sorry. Do you	2	A you would have to tell me what it is to
3	MR. ZELLERS: No.	3	know if
4	MR. BILLINGS-KANG: I may have two or	4	MS. O'DELL: or show it to her if
5	three questions.	5	you
6	MS. O'DELL: Oh, sorry, James. Yeah,	6	MR. BILLINGS-KANG: Sure.
7	please.	7	MS. O'DELL: have a question about it.
8	THE VIDEOGRAPHER: We are still on?	8	Q (BY MR. BILLINGS-KANG) But for purposes of
9	MC OIDELL M		
-	MS. O'DELL: Yes.	9	formulating your opinion in the expert report, did
10	THE VIDEOGRAPHER: Do we want to go off?	10	formulating your opinion in the expert report, did you rely on any PCPC-produced documents?
10 11	THE VIDEOGRAPHER: Do we want to go off? MR. BILLINGS-KANG: Yeah.		formulating your opinion in the expert report, did you rely on any PCPC-produced documents? MS. O'DELL: Object to the form.
10 11 12	THE VIDEOGRAPHER: Do we want to go off? MR. BILLINGS-KANG: Yeah. MS. BOCKUS: We need to go off to move the	10 11 12	formulating your opinion in the expert report, did you rely on any PCPC-produced documents? MS. O'DELL: Object to the form. A You would have to show
10 11 12 13	THE VIDEOGRAPHER: Do we want to go off? MR. BILLINGS-KANG: Yeah. MS. BOCKUS: We need to go off to move the mic.	10 11 12 13	formulating your opinion in the expert report, did you rely on any PCPC-produced documents? MS. O'DELL: Object to the form. A You would have to show MS. O'DELL: Put
10 11 12 13 14	THE VIDEOGRAPHER: Do we want to go off? MR. BILLINGS-KANG: Yeah. MS. BOCKUS: We need to go off to move the mic. THE VIDEOGRAPHER: The time is 11:37 a.m.	10 11 12 13 14	formulating your opinion in the expert report, did you rely on any PCPC-produced documents? MS. O'DELL: Object to the form. A You would have to show MS. O'DELL: Put A it to me.
10 11 12 13 14	THE VIDEOGRAPHER: Do we want to go off? MR. BILLINGS-KANG: Yeah. MS. BOCKUS: We need to go off to move the mic. THE VIDEOGRAPHER: The time is 11:37 a.m. We are going off the record.	10 11 12 13 14 15	formulating your opinion in the expert report, did you rely on any PCPC-produced documents? MS. O'DELL: Object to the form. A You would have to show MS. O'DELL: Put A it to me. MS. O'DELL: just put it in front of
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	Page 350		Page 352
1	You can answer	1	itself.
2	MS. O'DELL: None of that	2	Q Just
3	Q (BY MR. BILLINGS-KANG) yes or no, if	3	A I don't remember
4	you remember.	4	Q the document
5	MS. O'DELL: none of us would be	5	A seeing
6	expected to remember a document based on a Bates	6	Q itself.
7	number.	7	A this I don't remember seeing this
8	Q (BY MR. BILLINGS-KANG) Well, I'm asking	8	document.
9	her just generally PCPC-produced documents, if she	9	Q Okay. You can you can put that away.
10	relied on any of those	10	And I will go to your expert report that's
11	MS. O'DELL: Objection.	11	Exhibit 2, page 14. Just let me know when
12	Q (BY MR. BILLINGS-KANG) to formulate her	12	A I'm there.
13	opinion?	13	Q you're there. And this the first
14	MS. O'DELL: Object to the form. I'm	14	paragraph under "Asbestos," it's about halfway in
15	putting that	15	that first paragraph beginning with, Because of
16	MR. BILLINGS-KANG: Sure.	16	concern that asbestos was present in talcum powder
17	MS. O'DELL: that Bates number in front	17	products in the known carcinogenicity of asbestos,
18	of her. And if you	18	it has been reported that voluntarily guidelines
19	MR. BILLINGS-KANG: Sure.	19	were established by the cosmetic industry in 1976 to
20	MS. O'DELL: remember, you remember.	20	limit the content of asbestos fibers in commercial
21	A This is a document that lists different	21	talc preparations.
22	research studies that have been done over time. Is	22	Did I read that correctly?
23	that the document that we're	23	A You did.
24	Q (BY MR. BILLINGS-KANG) Well, I I'm not	24	Q And these are your words, correct?
25	too sure. This is a document you listed in the	25	A Yes, they are.
	Page 351		Page 353
1	reference list.	1	Q And what did you mean by "voluntarily
2	A I I'm just trying to make sure that I'm	2	guidelines"?
3	looking at the document that you are	3	A I I have read a lot about the
4	Q According to your counsel, this is what's	4	guidelines. And it the idea was that the
5	been identified on page 19 of the reference list.	5	industry decided to self-regulate and to do what
6	A I I do not remember this document.	6	they could to remove the asbestos, is my
7	This	7	understanding of what that was as opposed to being
8	Q Okay.	8	required to submit testing to document that they had
9	A document is just a list of studies.	9	done so.
10	Q So you do not recall whether you relied on	10	Q And and what did you rely upon for this
11	this document in formulating your opinion?	11	particular sentence?
12	A My	12	A This particular sentence is repeated in
13	MS. O'DELL: Object to the form.	13	in at least half of the papers that I have read that
14	A opinion is not based on the on a	14	are epidemiology papers.
15	a list of studies.	15	It's repeated in all of the news studies.
16 17	Q (BY MR. BILLINGS-KANG) Okay. So that's	16 17	It's repeated in reports by consumer organizations,
18	that's a that's a yes, you do not you did not rely on this document in formulating your opinion?	18	by the FDA, by the recent Canadian report, which I didn't have in hand.
19	A I I don't remember seeing this	19	But it's something that I I have read a
20	document. As I'm going through this document, there	20	lot a great deal, that there were voluntarily
	are a lot of studies that I reviewed that I did rely	21	standards that were established by the industry.
21		22	Q And so did you read any publication or
21 22			O Ania so aia you icaa aiiy bubiicanoii 0i
22	on. So I don't know if you're asking me if I		· · · · · · · · · · · · · · · · · · ·
22 23	So I don't know if you're asking me if I	23	whatever reliance materials that you had that
22			· · · · · · · · · · · · · · · · · · ·

	Page 354		Page 356
1	A I I I did not. I looked for	1	MR. ZELLERS: Objection, form.
2	documents like that. I was not able to find them.	2	Q (BY MS. O'DELL) Let me strike that and
3	Required requirements, I was not able to find.	3	start again. Did your meta-analysis replicate what
4	MR. BILLINGS-KANG: Okay. That's all I	4	had been published in the literature?
5	have.	5	A The
6	MS. O'DELL: Why don't we take a short	6	MR. ZELLERS: Form.
7	break.	7	A the results of my meta-analysis and the
8	THE VIDEOGRAPHER: The time is 11:45 a.m.	8	previous ones are nearly identical. So yes, it was
9	We are now off the record.	9	a very close replication.
10	(A break was taken from 11:45 a.m. to	10	Q (BY MS. O'DELL) And you have mentioned
11	12:15 p.m.)	11	your intent to publish your your meta-analysis,
12	THE VIDEOGRAPHER: The time is 12:15 p.m.	12	your systematic review. And I believe you testified
13	We are now back on the record.	13	that in the published version, you would add
14	EXAMINATION BY COUNSEL FOR THE PLAINTIFFS	14	additional detail.
15	BY MS. O'DELL:	15	What did you mean by that?
16	Q Dr. Smith-Bindman, I have just a few	16	A So the analysis that I have done is
17	questions for you. First, during all of your work	17	complete. But the presentation of the results in a
18	in this case, was it your understanding that you	18	paper would require more beautiful graphics, would
19	were serving as an expert consultant?	19	require explaining our inclusion and exclusion
20	A Yes.	20	criteria more fully than I did in this published
21	Q And you know, throughout the early	21	report. Things like that.
22	meetings in June, I believe, of 2017, where you met	22	And that actually is a substantial part of
23	with Plaintiffs' counsel, did Plaintiffs' counsel	23	the writing of a scientific paper, sort of
24	provide information regarding their theories of the	24	explaining every step of what you did, and so I
25	talcum powder litigation?	25	would have to do more of that to publish this study.
	Page 355		Dage 357
			Page 357
1	A Yes.	1	Q Is there sufficient detail in the in
1 2	Q And have you been paid by Plaintiffs'	1 2	Q Is there sufficient detail in the in your report regarding your methodology, as well as
	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in		Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets
2 3 4	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in this case?	2 3 4	Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets to for someone to replicate the work that you
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2 3 4 5 6	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in this case? A Yes, I have. Q Okay. You have been asked a number of	2 3 4 5 6	Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets to for someone to replicate the work that you have done? MR. ZELLERS: Objection, form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in this case? A Yes, I have. Q Okay. You have been asked a number of questions about the meta-analysis, the systematic review that you performed on the regular use of of talcum powder. Would you have reached your opinions in this case without having performed that analysis? A My systematic review ended up with the same estimates as essentially all of the other well-done systematic reviews. And it was very helpful for me to confirm the results. But yes, it's the same as the other studies, and so my my conclusion about the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets to for someone to replicate the work that you have done? MR. ZELLERS: Objection, form. A I believe that if someone used the software that we said and had the inclusion criteria that we led out set out, that they would get the the same results as we got. And I think the fact that our review provides the same results as other systematic reviews sort of, you know, also supports that. But yes, I think someone could easily replicate our our analysis. Q (BY MS. O'DELL) Okay. You were asked a number of before I do that, let me ask you: Can
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in this case? A Yes, I have. Q Okay. You have been asked a number of questions about the meta-analysis, the systematic review that you performed on the regular use of of talcum powder. Would you have reached your opinions in this case without having performed that analysis? A My systematic review ended up with the same estimates as essentially all of the other well-done systematic reviews. And it was very helpful for me to confirm the results. But yes, it's the same as the other studies, and so my my conclusion about the causality of talcum powder products and ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets to for someone to replicate the work that you have done? MR. ZELLERS: Objection, form. A I believe that if someone used the software that we said and had the inclusion criteria that we led out set out, that they would get the the same results as we got. And I think the fact that our review provides the same results as other systematic reviews sort of, you know, also supports that. But yes, I think someone could easily replicate our our analysis. Q (BY MS. O'DELL) Okay. You were asked a number of before I do that, let me ask you: Can there be multiple causes of ovarian cancer?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q And have you been paid by Plaintiffs' counsel for all the work that you have billed in this case? A Yes, I have. Q Okay. You have been asked a number of questions about the meta-analysis, the systematic review that you performed on the regular use of of talcum powder. Would you have reached your opinions in this case without having performed that analysis? A My systematic review ended up with the same estimates as essentially all of the other well-done systematic reviews. And it was very helpful for me to confirm the results. But yes, it's the same as the other studies, and so my my conclusion about the causality of talcum powder products and ovarian cancer would be exactly the same, even without mine.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q Is there sufficient detail in the in your report regarding your methodology, as well as in the documentation provided in the spreadsheets to for someone to replicate the work that you have done? MR. ZELLERS: Objection, form. A I believe that if someone used the software that we said and had the inclusion criteria that we led out set out, that they would get the the same results as we got. And I think the fact that our review provides the same results as other systematic reviews sort of, you know, also supports that. But yes, I think someone could easily replicate our our analysis. Q (BY MS. O'DELL) Okay. You were asked a number of before I do that, let me ask you: Can there be multiple causes of ovarian cancer? A Absolutely. I I describe in the
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	Page 358		Page 360
1	would talcum powder products be a contributing cause	1	not disclosed in Dr. Smith-Bindman's expert report.
2	of her cancer?	2	A Can I read? Just on page 14, The results
3	MR. ZELLERS: Objection, form.	3	were consistent, significant, and documented a
4	A I think patients can have multiple risk	4	strong and compelling causal association between
5	factors and causes of of cancer. Some causes,	5	exposure to asbestos and ovarian cancer largely
6	you would imagine, would be quite synergistic.	6	result in the association from cohort studies of
7	So having both together would be worse	7	women with substantial occupational exposures.
8	than twice having either of those alone. So it	8	That that was the
9	would be worse than having it it would be more	9	Q (BY MS. O'DELL) Okay. Let me let me
10	than double the initial, because they would be	10	ask you to to turn, Dr. Smith-Bindman, to the
11	basically enhancing.	11	Langseth paper that was marked as Exhibit 30 by
12	So if if some risk factors caused lots	12	counsel for J&J.
13	of oxidative stress and another enhanced that	13	And specifically to turn to page 2 of the
14	oxidative stress and prevented repair or cell	14	paper to Figure 1.
15	apoptosis, you would get even more impact.	15	A Yes.
16	So yes, I would say multiple risk factors	16	Q You were asked a number of questions about
17	for most diseases occur concurrently, and sometimes	17	whether the studies that had confidence intervals
18	they enhance or are synergistic.	18	that cross one were essentially by chance. In other
19	Q (BY MS. O'DELL) Can asbestos be inhaled	19	words, they they did not speak to a potential
20	and cause ovarian cancer?	20	increased risk in ovarian cancer as a result of
21	MR. ZELLERS: Objection, form; foundation.	21	talcum powder use.
22	A Absolutely. The the IARC 2012 report	22	Are the what's your analysis of those
23	was primarily on the basis of inhalation of	23	studies and whether, as counsel put it, it was
24	asbestos.	24	equivalent to a coin toss?
25	Q (BY MS. O'DELL) Can fibrous talc be	25	A So if there was no relationship between
	Page 359		Page 361
1		1	
1 2	inhaled and cause ovarian cancer?	1 2	ovarian cancer and exposure to talcum powder
1 2 3	inhaled and cause ovarian cancer? A I	2	ovarian cancer and exposure to talcum powder products, you would expect the forest plot in
2	inhaled and cause ovarian cancer? A I MR. ZELLERS: Objection, form; foundation.	2 3	ovarian cancer and exposure to talcum powder products, you would expect the forest plot in Figure 1 to have half of the point estimates be
2	inhaled and cause ovarian cancer? A I MR. ZELLERS: Objection, form; foundation. A yes.	2	ovarian cancer and exposure to talcum powder products, you would expect the forest plot in Figure 1 to have half of the point estimates be above one, saying there's a risk; and half of the
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both directions. Retrograde menstruation and

menstruation go both directions.

Rebecca Smith-Bindman, M.D.

Page 362 Page 364 ratio for hospital-based studies and the focus on There have been studies of sperm, both 1 1 2 that finding being that it was not a statistically 2 living and dead, going in both directions. So it's 3 3 significant increased risk. not just the mobile sperm, but the dead sperm. 4 Did the Berge paper also look at a pooled 4 Carbon particles -- you know, a tiny 5 5 study -- but have been shown to move -- radioactive analysis of the hospital-based studies? 6 A She did. If you look at Table 2, Table 2 6 material has been seen to move. Material on gloves 7 shows the results of the case-control studies that 7 has been seen. 8 were hospital based versus community based. 8 So it's a wide-open system. The idea that 9 9 And those individual group of we think of that as being a barrier system is just 10 10 hospital-based studies are statistically 11 significant. 11 Now, I don't know of an individual study 12 But I would point out that in this case 12 that has put talc on the perineum. I think that's, 13 the -- they report the relative risk of a hospital 13 unfortunately, not an ethical study to do. And I 14 14 based versus community based. They're relatively don't know of such a study or why you would do such 15 similar. They're both significant, and they're 15 a study. 16 16 relatively similar, which is what I concluded from But to think that there's any barrier 17 17 Langseth. They're very similar. between the perineum and the vagina makes no sense 18 18 Q Okay. You were asked about studies whatsoever. 19 19 relating to migration. And the specific -- the Q Let me transition to talk about 20 specific question, as I wrote it down was: Is there 20 inflammation for a moment, and specifically 21 a study that demonstrates talc on the -- applied to 21 inflammation as a cause of ovarian cancer first. 22 the perineum, traveling to the -- or migrating to 22 What evidence are you relying on to 23 the ovary, and you said, No. 23 support your opinion that inflammation -- chronic 24 What evidence are you relying on to 24 inflammation causes ovarian cancer? 25 25 support your opinion that talcum powder can migrate A Okay. So there's an enormous amount of Page 363 Page 365 1 when applied -- applied to the genital area to the 1 literature that understands what we see when there's 2 2 inflammation, what kind of changes you see on a 3 3 A So I was asked a very narrow question, is cellular level. there a study that talks about transport from the 4 4 So you see increase in pro oxidation, a 5 5 perineum. reduction in antioxidation. You see increase in 6 6 But in fact, there is extensive evidence cell turnover, reduction in cell death, expression 7 that particles from the perineum could get to the 7 of inflammatory agents, cellular changes at the DNA 8 8 ovary and do get to the ovary. level that leads to greater expression. 9 9 And part of that is the perineum is We -- we understand those pathways. And 10 10 those pathways occur both with talc exposure and in basically equivalent to the vagina. It is one open 11 system to the ovary. 11 the setting of things that cause ovarian cancer. 12 12 And so my evidence for that is So I -- in my reference list, I reference 13 13 a whole bunch of references -- Saed references, several-fold. First, I'm a clinical radiologist, 14 and I do a lot of procedures in women where I am 14 Shawn (phonetic) references, Ness references. 15 putting catheters in the vagina and injecting fluid 15 There's really enormous numbers of references. 16 that goes to the uterus, to the tubes. I watch the 16 I -- in my documents I have Shukla 17 fluid spill. It's a wide-open system. 17 references, Buz'Zard references, Hamilton references 18 Occasionally patients have complications 18 that talk away sort of these inflammatory pathways 19 19 that don't let me do that, and I might inject fluid and biologic mechanisms that lead to changes that go 20 literally on the perineum to get a backlash to the 20 along with inflammation. 21 ovaries. And it's a wide-open connected system. 21 Q I know you have reviewed Dr. Saed's 22 All of our textbooks talk about it being a 22 research in regard to whether talcum powder causes 23 bi-directional system. You know, infection goes 23 inflammation in vitro.

First, let me ask you this: Does

Dr. Saed's work support the conclusion that

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	Page 366		Page 368
1		,	
2	Johnson's baby powder causes inflammation? MR. ZELLERS: Objection, form.	1 2	do that. That's beyond me. But that's what this whole model is, to try to help you understand what
3	A So Saed specifically looked at Johnson	3	the effect mechanistically is from these changes.
4	baby powder, so his results specifically pertained	4	Q (BY MS. O'DELL) And is the use of that
5	to Johnson baby powder.	5	model in scientific research generally accepted?
6	He looked at several different measures	6	A Highly.
7	that I have just mentioned inflammation. So he	7	MR. ZELLERS: Objection, form.
8	looked specifically at oxidative stress, the up	8	A My understanding is that is the basis for
9	regulation or down regulation of	9	much of the research that comes that happens at
10	THE COURT REPORTER: The?	10	my research institution.
11	A up regulation or pro oxidants, down	11	Q (BY MS. O'DELL) Just to make sure that the
12	regulation of antioxidants. He looked at cell	12	record is clear, Dr. Smith-Bindman, in I asked
13	proliferation. He looked at SNPS point mutations	13	the question: Is the use of that model in
14	that are associated with this.	14	scientific research generally accepted? I'm not
15	THE COURT REPORTER: Snips?	15	sure your answer came through. What's your answer?
16	A S N P S, SNPS.	16	MR. ZELLERS: For your just objection,
17	THE COURT REPORTER: Because you're facing	17	form. Go ahead.
18	that way, and the mic is here. Thanks.	18	A Yes. I I said that that's a very
19	A And showed substantial changes to talcum	19	common model at UCSF.
20	powder to all of these. I I was really quite	20	Q Okay.
21	impressed with the consistency in these markers of	21	MS. O'DELL: I have nothing further.
22	inflammation.	22	Thank you.
23	Some of them overlap clinical markers we	23	MR. ZELLERS: Let's take a break for a
24	use. Like CA125 went up very strongly just like it	24	couple of minutes.
25	goes up for ovarian cancer.	25	THE VIDEOGRAPHER: The time is 12:34 p.m.
23	goes up for ovarian cancer.	23	THE VIDEOGRAFIER. The time is 12.54 p.m.
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A Yes.

Rebecca Smith-Bindman, M.D.

	Redeeda BiiiItii		
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1	for ovarian cancer?	1	Q Do you know if anything about what you
2	MS. O'DELL: Object to the form.	2	just described has any correlation to the way in
3	A I would have to look through my papers	3	which women use talcum powder in their perineal
4	with that question in mind. I know some of the	4	region?
5	papers have looked at BRCA, but I can't remember if	5	MS. O'DELL: Object to the form.
6	they sort of stratified the results by with or	6	A I I don't know what how women use
7	without BRCA, so I I'm not sure of the answer to	7	talcum powder on their perineum.
8	that.	8	Q (BY MS. BOCKUS) Do you know what
9	I was more speaking about, from work that	9	percentage of sperm that are placed in a women's
10	I do, the idea of synergy between risk factors. And	10	vagina make it to the ovaries?
11	one of those is BRCA and radiation exposure. So	11	A Only from child cartoons that make it seem
12	I I meant generally it can be the case. I	12	like it's a competitive race. But percentagewise, I
13	didn't mean to suggest we know what it is for this.	13	don't know.
14	Q (BY MS. BOCKUS) Okay. Then you spoke	14	Q Do you have any reason to believe that
15	about the female reproductive system being a	15	talc makes it from the vagina to the ovaries in
16	wide-open system.	16	greater percentage than sperm?
17	What procedure are you doing when you are	17	A I I I would guess that that's not
18	putting fluid on a women's perineum to see if it	18	the case.
19	goes to the ovaries?	19	MS. BOCKUS: That's all I have.
20	A I apologize. So the primary procedures	20	MR. ZELLERS: I have just a couple.
21	would be a hysterosonogram, which we're putting	21	EXAMINATION BY COUNSEL FOR THE DEFENDANTS
22	water into the uterus and the tubes mostly to look	22	BY MR. ZELLERS:
23	for patency.	23	Q Dr. Smith-Bindman, did you discuss with
24	But it turns out we end up needing to do	24	Plaintiffs' counsel, calling Dr. Hall on our break
25	procedures in postop patients, not infrequently,	25	between yesterday's first session and today's
20	procedures in postop patients, not infrequently,	23	between yesterday's first session and today's
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1	where we might be looking for connections between	1	session?
2	different structures, preop or postop.	2	MS. O'DELL: I'm going to ask ask
3	In the ballpark of 10 percent of women to	3	you instruct you not to answer questions
4	20 percent have cervical stenosis, and you can't	4	regarding discussions with counsel.
5	catheterize.	5	MR. ZELLERS: The defense agreed to split
6	Or there might be some reason we don't	6	this deposition of Dr. Smith-Bindman over two days
7	want to catheterize or put the tubes in the vagina.	7	on the expressed condition that the extended break
8	We might put the tube directly on the perineum and	8	not be used for preparation.
9	see if we can create kind of a a way to keep,	9	The witness and Plaintiffs' counsel
10	let's say, a balloon in place and then inject in a	10	violated that understanding. Further, it's entirely
11	retrograde fashion.	11	inappropriate for an expert witness to consult with
12	So it feels like it comes out probably	12	a consulting expert during a break.
13	every couple of months. But we're actually pretty	13	We move to strike all of
14			
	far from the cervix. And we're injecting usually	14	Dr. Smith-Bindman's testimony and will take the
15	far from the cervix. And we're injecting usually water or sometimes contrast and then looking mostly	14 15	Dr. Smith-Bindman's testimony and will take the issue to court.
15	water or sometimes contrast and then looking mostly	15	issue to court.
15 16	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy.	15 16	issue to court. MS. O'DELL: The record is clear that
15 16 17	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with	15 16 17	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last
15 16 17 18	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with some degree of pressure, you're putting the water or	15 16 17 18	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last night. There was no preparation done between the
15 16 17 18 19	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with some degree of pressure, you're putting the water or other fluid into the vagina?	15 16 17 18 19	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last night. There was no preparation done between the conclusion of the deposition yesterday and the
15 16 17 18 19 20	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with some degree of pressure, you're putting the water or other fluid into the vagina? A There is some degree of pressure, yes.	15 16 17 18 19 20	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last night. There was no preparation done between the conclusion of the deposition yesterday and the beginning of the deposition this morning. I think
15 16 17 18 19 20 21	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with some degree of pressure, you're putting the water or other fluid into the vagina? A There is some degree of pressure, yes. Q And when you do that, is the patient's	15 16 17 18 19 20 21	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last night. There was no preparation done between the conclusion of the deposition yesterday and the beginning of the deposition this morning. I think the record has been clear on that.
15 16 17 18 19 20 21 22	water or sometimes contrast and then looking mostly with ultrasound, but sometimes with fluoroscopy. Q And when you say "inject," that means with some degree of pressure, you're putting the water or other fluid into the vagina? A There is some degree of pressure, yes. Q And when you do that, is the patient's head lower than her hips?	15 16 17 18 19 20 21 22	issue to court. MS. O'DELL: The record is clear that counsel did not speak with Dr. Smith-Bindman last night. There was no preparation done between the conclusion of the deposition yesterday and the beginning of the deposition this morning. I think the record has been clear on that. That was we agreed to do that. We had

both parties, when they're putting up their

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1	respective witnesses, to confer with the witness.	1	I, MARY J. GOFF, CSR No. 13427, Certified		
2	And we did confer with Dr. Smith-Bindman	2	Shorthand Reporter of the State of California,		
3	prior to the deposition this morning for about	3	3 certify;		
4	10 minutes, and that's perfectly within our rights,	4 That the foregoing proceedings were taken			
5	and so we would oppose any such motion.	5 before me at the time and place herein set forth, at			
6	MR. ZELLERS: Done? We are concluded.	6 which time the witness declared under penalty of			
7	THE VIDEOGRAPHER: The time is 12:48 p.m.	7 perjury; that the testimony of the witness and all			
8	We are now off the record.	8	objections made at the time of the examination were		
9	(TIME NOTED: 12:48 p.m)	9	recorded stenographically by me and were thereafter		
10	` '	10	transcribed under my direction and supervision; that		
11		11	the foregoing is a full, true, and correct		
12		12	transcript of my shorthand notes so taken and of the		
13		13	testimony so given;		
14		14	That before completion of the deposition,		
15		15	review of the transcript () was (XX) was not		
16		16	requested: () that the witness has failed or		
17		17	refused to approve the transcript.		
18		18	I further certify that I am not financially		
19		19	interested in the action, and I am not a relative or		
20		20	employee of any attorney of the parties, nor of any		
21		21	of the parties.		
22		22	I declare under penalty of perjury under the		
23		23	laws of California that the foregoing is true and		
24		24	correct, dated this day of , 2019.		
25		25			
1	2436 373	,			
1 2		1 2	ERRATA SHEET		
3		3	Golkow Litigation Services 1650 Market Street, One Liberty Plaza, 51st Floor		
4	I, REBECCA SMITH-BINDMAN, M.D., do hereby	4	Philadelphia, Pennsylvania 19103		
5	declare under penalty of perjury that I have read	5	877-370-3377		
6	the foregoing transcript; that I have made any	6	CASE: Talcum Powder Litigation		
7	corrections as appear noted, in ink, initialed by	7	PAGE LINE FROM TO		
8	me, or attached hereto; that my testimony as	8	TAGE LINE TROW		
9	contained herein, as corrected, is true and correct.	9			
10	EXECUTED this day of,	10			
11	20, at, (City) (State)	11			
12	(City) (State)	12			
13		13			
14		14			
	REBECCA SMITH-BINDMAN, M.D.	15			
15	VOLUME II	16			
16		17			
17		18			
18		19			
19 20		20			
21		21	REBECCA SMITH-BINDMAN, M.D., VOLUME II		
22		22	Subscribed and sworn to before me		
23		23	this day of, 2019.		
24		24			
25		25	Notary Public		

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